

**RETENTION POND, DITCHES 6 AND 7
AND TRUCK SCALE SUMP
DISCHARGE POINT
INVESTIGATION REPORT**

**Sierra Pacific Industries
Arcata Division Sawmill
2593 New Navy Base Road
Arcata, California**

October 21, 2003



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consulting
scientists and
engineers

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SIERRA PACIFIC INDUSTRIES

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PROFESSIONAL CERTIFICATION

This report was prepared by MFG, Inc. under the professional supervision of Edward P. Conti. The findings, recommendations, specifications and/or professional opinions presented in this report were prepared in accordance with generally accepted professional hydrogeologic practice, and within the scope of the project. There is no other warranty, either express or implied.



October 21, 2003

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1.0 INTRODUCTION

MFG, Inc. has prepared this report on behalf of Sierra Pacific Industries (SPI) to document soil and groundwater sampling activities at the retention pond (Area E), ditches 6 and 7 (Area F) and the truck scale sump discharge point (Area G) of SPI's Arcata Division Sawmill. This work was performed to satisfy the requirements of Sections 12.A.5 and 12.C of the Consent Decree between Ecological Rights Foundation and Sierra Pacific Industries, Inc. et al (case number C-01-0520-MEJ) (Consent Decree). The Arcata Division Sawmill is located at 2593 New Navy Base Road in Arcata, California (hereinafter "the Site"). The Site location is shown in Figure 1. A Site plan of the Arcata Division Sawmill, including Areas E, F and G as defined in the Consent Decree, is presented in Figure 2. An enlargement of a portion of the Site showing the features of the retention pond (Area E), ditches 6 and 7 (Area F) and the truck scale sump discharge point (Area G) is presented in Figure 3.

This work was performed in accordance with the scope of work presented in MFG's *Retention Pond, Ditches 6 and 7 and Truck Scale Sump Discharge Point Investigation* work plan (Work Plan), dated May 28, 2003. The Work Plan was approved by the California Regional Water Quality Control Board, North Coast Region, on June 13, 2003. Investigation activities consisted of collecting and chemically analyzing soil and groundwater samples from two locations in the retention pond, every 20 feet along ditches 6 and 7, and one location at the truck scale sump discharge point. Although not a requirement of the Consent Decree and not included in the Work Plan, a surface water sample was collected from the retention pond. This report summarizes the methods and results of the sampling and analysis activities.

This report is organized as described below. Background information is provided in Section 2.0. The geology and hydrogeology of the Site is discussed in Section 3.0. The soil sampling methods and chemical analysis methods and results are presented in Section 4.0. The groundwater sampling methods and chemical analysis methods and results are presented in Section 5.0. The surface water sampling methods and chemical analysis methods and results are presented in Section 6.0. Disposal of investigation-derived waste is discussed in Section 7.0. References cited in this report are listed in Section 8.0.

2.0 BACKGROUND

2.1 Site Description

The Site is located on the Samoa Peninsula in Arcata, Humboldt County, California (Figure 1). A Site plan showing features of the Arcata Division Sawmill is included in Figure 2. The Site features in the area of the retention pond (Area E), ditches 6 and 7 (Area F) and the truck scale sump discharge point (Area G) are included in Figure 3.

The Site was originally undeveloped land, consisting of sand dunes and mud flats, until approximately 1950 when SPI converted the land into a lumber mill. During conversion, SPI filled portions of the Site. SPI began operations at this facility before the area was completely filled in. The mill has been active from 1950 to the present day.

2.2 Retention Pond, Ditches 6 and 7 and the Truck Scale Sump Discharge Point

The retention pond, ditches 6 and 7, and the truck scale sump discharge point are located in the southwestern portion of the property (Figure 2). The retention pond is a densely vegetated, swampy area located near the southwestern-most portion of the property. The retention pond receives runoff from ditch 7 and the surrounding area. Ditch 6 is approximately 460 feet in length and runs in a northeast to southwest direction along New Navy Base Road. Ditch 6 receives runoff from the pavement in the vicinity of the truck shop as well as New Navy Base Road. Ditch 7 is approximately 320 feet in length and also runs in a northeast to southwest direction toward the northern portion of the retention pond (Figure 3). Ditch 7 receives runoff from the pavement in the vicinity of the truck shop and from the surrounding area. The truck scale sump discharge point is located between the southeast corner of the truck scale and ditch 6. In the past, this has periodically been the discharge point for the sump pump installed in the former truck scale sump. A new, completely above-ground, truck scale was installed at the Site earlier in 2003.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subsurface lithology and hydrogeology at the Site was previously investigated and described by Environet Consulting (Environet, 2003). The subsurface lithology consists primarily of fine- to medium-grained sand of apparent sand dune origin to a depth of approximately 22 feet below ground level (bgl), the maximum depth explored during previous drilling activities at the Site. The sand is sporadically interbedded with thin lenses of "Bay Mud," consisting of a mixture of sand and silt.

In the eastern portion of the Site, groundwater has been measured in existing monitoring wells at depths ranging from approximately 1 to 5 feet bgl and the groundwater flow direction is generally to the east, toward the Mad River Slough (Figure 2) (Environet, 2003). Groundwater was measured at a depth of approximately 2 feet bgl in a temporary monitoring well that was installed in April 2003 in the vicinity of the truck shop, which is located in the general vicinity of the retention pond, ditches 6 and 7, and the truck scale sump discharge point. During this investigation, groundwater was encountered at depths ranging from the ground surface (in portions of the ditches and in the retention pond) to approximately 3 feet bgl. Based on the proximity of this portion of the site to Humboldt Bay, the groundwater flow direction in this area is likely to the south-southeast, toward Humboldt Bay.

4.0 SOIL SAMPLING METHODS AND RESULTS

4.1 Field Methods

Prior to sampling activities, MFG obtained a boring permit from the Humboldt County Division of Environmental Health (HCDEH) (Appendix A). A standard encroachment permit for performing work within the right-of-way of New Navy Base Road (Highway 255) was also obtained from the California Department of Transportation (Caltrans) for sampling activities along ditch 6 (Appendix B). Underground Service Alert (USA) was contacted to mark the area for underground utilities and knowledgeable SPI personnel were consulted about the presence of underground utilities in the vicinity of the sampling locations.

On July 8, 9 and 10, 2003, soil borings were advanced using a hand auger at two locations in the retention pond, 17 locations in ditch 7 and one location at the truck scale sump discharge point. The two borings in the retention pond (borings RP-1 and RP-2) were located approximately 55 feet south-southeast and 15 feet east, respectively, of the locations presented in MFG's Work Plan because of the presence of surface water in the pond and very dense vegetation, which limited access. Upon receipt of the encroachment permit from Caltrans, soil borings were advanced using a hand auger on July 22, 23, and 24, 2003 at 24 locations in ditch 6. The sampling locations are shown in Figure 3.

In accordance with the Work Plan, soil samples were collected at the ground surface (0.0 to 0.5 feet bgl) and at 6-inch intervals to a depth of 2.5 feet bgl from borings RP-1 and RP-2 located in the retention pond. Soil samples were collected at the ground surface (0.0 to 0.5 feet bgl) in ditches 6 and 7. Soil samples were collected at the ground surface (0.0 to 0.5 feet bgl) and from the depth interval of 2.0 to 2.5 feet bgl in boring SDP-1, located at the track scale sump discharge point.

The soil samples were collected from the desired sample interval in a 6-inch brass liner inserted into a stainless steel drive sampler that was manually driven into the subsurface using a slide hammer, in advance of the hand auger. After sample collection, the brass liner was removed from the drive sampler, the ends were covered with Teflon[®] sheets, capped with polyethylene lids, then sealed with duct tape. The liners were labeled and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory.

The soil was described in the field for lithologic classification, color and moisture content in accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) D 2488. Indications of contamination, including observations regarding odor or staining, if any, were noted on a boring log for each sampling location. The boring logs are included as Appendix C. Headspace measurements of soil from each sample interval were made in the field using a Thermo-Environmental Instruments Model 580B portable photoionization detector (PID). The PID was calibrated using a 96 parts per million by volume (ppmv) isobutylene gas standard. The response factor of the PID was set such that the instrument would read in ppmv as isobutylene. To prepare the soil for headspace measurements, the soil was placed in a sealable plastic bag, the bag was sealed, and then the soil was broken up and agitated. The bag was allowed to stand for approximately 10 minutes, agitated again, and then the PID probe was inserted into the bag. The highest PID reading was recorded for each sample and noted on the boring log opposite the respective sample interval (Appendix C).

At the conclusion of soil sampling activities, the borings were hand augered to depths ranging from 1.5 to 4.0 feet bgl for the collection of grab groundwater samples (Section 5.0).

Sampling equipment was decontaminated before and after use at each sampling location by washing it in a solution of Liquinox[®] detergent and distilled water and double or triple rinsing with distilled water.

Soil cuttings and equipment wash water generated during sampling activities were placed in separate steel, 55-gallon, Department of Transportation (DOT)-approved drums that were sealed and labeled and are being temporarily stored in a secure location at the Site pending disposal (Section 7.0).

4.2 Stratigraphy and Field Observations

The soil encountered during sampling activities consisted of sandy silts to a depth of approximately one foot bgl and silty sands or sands to a depth of 4 feet bgl, the maximum depth explored. Gravel was present near the surface in some borings. The depth of saturated soil encountered in the borings ranged from ground surface to approximately 3 feet bgl (Appendix C). The PID readings from headspace measurements of the soil samples ranged from 0.0 to 4.5 ppmv (Appendix C). A slight

petroleum-like odor was noted in the soil from borings D7-3 and D7-12 at a depth of approximately 0.5 feet bgl in both borings.

4.3 Chemical Analysis Methods

The soil samples were submitted for chemical analysis to Alpha Analytical Laboratories Inc. (Alpha) of Ukiah, California. The samples were analyzed for the following constituents:

- Total oil and grease using EPA Method 9071B;
- Chlorinated phenols using the Canadian Pulp Method;
- Wear metals (cadmium, chromium, lead, nickel, and zinc) using EPA Method 6010B; and
- pH using EPA Method 9045.

Analysis of soil samples for total oil and grease was a requirement of the Consent Decree. Soil samples were analyzed for total oil and grease using EPA Method 9071B. During sample collection, field personnel did not observe visible petroleum hydrocarbons in the soil samples; however, total oil and grease was detected in the samples. Since the total oil and grease method detects some non-petroleum organic compounds as well as petroleum hydrocarbons, the still-available¹ sample extracts were subjected to the EPA Method 9071B method-specific silica gel cleanup procedure and then re-analyzed. The silica gel cleanup procedure is intended to remove polar organic constituents that could interfere with the quantitation of petroleum hydrocarbons.

Oil and grease was detected in the samples following the silica gel cleanup, although at lower concentrations than detected prior to silica gel cleanup in most samples. Visible evidence of petroleum hydrocarbons was not noted in the field during sample collection, although a petroleum odor was noted in two samples (Section 4.2). A common limitation associated with silica gel cleanup is the potential for incomplete cleanup due to the limited volume of silica gel used. In addition, the presence of organic

¹ For most samples, the extracts were analyzed first, then subjected to the silica gel cleanup, and then re-analyzed. However, for some of the samples, the original extracts had already been disposed by the laboratory and therefore the sample had to be re-extracted, subjected to the silica gel cleanup, and then analyzed. For these latter samples, the pre- and post-silica gel cleanup analyses were performed on extracts prepared from different aliquots of the soil sample. Due to inherent soil heterogeneities, these data are not easily compared.

compounds that are not removed by silica gel can interfere with the quantitation of petroleum hydrocarbons. The chemical analysis results for the soil samples are summarized in Table 1. Copies of the laboratory reports and chain-of-custody records are included in Appendix D.

4.4 Chemical Analysis Results

4.4.1 Retention Pond (Area E)

Total oil and grease was detected at concentrations ranging from 6,200 to 40,000 milligrams per kilogram (mg/kg) in the five soil samples from boring RP-1 and 120 to 1,400 mg/kg in the five soil samples from boring RP-2. Oil and grease (silica gel cleanup) was detected at concentrations ranging from 5,000 to 25,000 mg/kg in the five soil samples from boring RP-1 and 50 to 160 mg/kg in the five soil samples from boring RP-2.

Chlorinated phenols were not detected at or above the laboratory reporting limit of 1.0 mg/kg in any of the soil samples from borings RP-1 and RP-2.

Of the five soil samples collected from boring RP-1, cadmium was detected in two samples at concentrations of 1.3 and 1.2 mg/kg, chromium was detected in five samples at concentrations ranging from 43 to 110 mg/kg, lead was detected in all of the samples at concentrations ranging from 14 to 27 mg/kg, nickel was detected in all of the samples at concentrations ranging from 58 to 210 mg/kg, and zinc was detected in all of the samples at concentrations ranging from 63 to 150 mg/kg.

Of the five soil samples collected from boring RP-2, chromium was detected in four samples at concentrations ranging from 18 to 25 mg/kg, lead was detected in three samples at concentrations ranging from 8.8 to 28 mg/kg, nickel was detected in four samples at concentrations ranging from 16 to 22 mg/kg and zinc was detected in all of the samples at concentrations ranging from 18 to 61 mg/kg. Cadmium was not detected in any of the samples at or above the laboratory reporting limit of 1.0 mg/kg.

The pH of the soil samples from boring RP-1 ranged from 5.1 to 5.8 and the pH of the soil samples from boring RP-2 ranged from 5.2 to 6.1.

4.4.2 Ditches 6 and 7 (Area F)

Total oil and grease was detected in all 24 surface soil samples from ditch 6 at concentrations ranging from 140 to 12,000 mg/kg and all 17 surface soil samples from ditch 7 at concentrations ranging from 130 to 26,000 mg/kg. Oil and grease (silica gel cleanup) was detected in 23 surface soil samples from ditch 6 at concentrations ranged from 110 to 6,000 mg/kg and all 17 surface soil samples from ditch 7 at concentrations ranging from 100 to 11,000 mg/kg.

Chlorinated phenols were not detected at or above the laboratory reporting limit of 1.0 mg/kg in any of the surface soil samples from ditches 6 and 7.

Of the 24 surface soil samples collected from ditch 6, chromium was detected in all of the samples at concentrations ranging from 17 to 51 mg/kg, lead was detected in 21 samples at concentrations ranging from 5.2 to 59 mg/kg, nickel was detected in 23 samples at concentrations ranging from 10 to 63 mg/kg and zinc was detected in all of the samples at concentrations ranging from 14 to 280 mg/kg. Cadmium was not detected in any of the samples at or above the laboratory reporting limit of 1.0 mg/kg.

Of the 17 surface soil samples collected from ditch 7, cadmium was detected in one sample at a concentration of 5.1 mg/kg, chromium was detected in all of the samples at concentrations ranging from 10 to 46 mg/kg, lead was detected in 15 samples at concentrations ranging from 5.8 to 35 mg/kg, nickel was detected in all of the samples at concentrations ranging from 11 to 46 mg/kg, and zinc was detected in all of the samples at concentrations ranging from 23 to 460 mg/kg.

The pH of the surface soil samples from ditch 6 ranged from 5.0 to 6.7 and the pH of the surface soil samples from ditch 7 ranged from 5.1 to 6.3.

4.4.3 Truck Scale Sump Discharge Point (Area G)

Total oil and grease was detected at a concentration of 8,100 mg/kg in the surface soil sample from boring SDP-1 and 460 mg/kg in the soil sample collected from the depth interval of 2.0 to 2.5 feet bgl in boring SDP-1. Oil and grease (silica gel cleanup) was detected at a concentration of 3,600 mg/kg in the

surface soil sample from boring SDP-1 and 150 mg/kg in the soil sample collected from the depth interval of 2.0 to 2.5 feet bgl in boring SDP-1.

Chlorinated phenols were not detected at or above the laboratory reporting limit of 1.0 mg/kg in the two soil samples from boring SDP-1.

In the surface soil sample collected from boring SDP-1, chromium was detected at a concentration of 44 mg/kg, lead was detected at a concentration of 31 mg/kg, nickel was detected at a concentration of 61 mg/kg and zinc was detected at a concentration of 160 mg/kg. Cadmium was not detected at or above the laboratory reporting limit of 1.0 mg/kg.

In the soil sample collected from the depth interval of 2.0 to 2.5 feet bgl in boring SDP-1, chromium was detected at a concentration of 21 mg/kg, nickel was detected at a concentration of 49 mg/kg and zinc was detected at a concentration of 37 mg/kg. Cadmium was not detected at or above the laboratory reporting limit of 1.0 mg/kg and lead was not detected at or above the laboratory reporting limit of 5.0 mg/kg.

The pH of the surface soil sample from boring SDP-1 was 6.7 and the pH of the soil sample collected from the depth interval of 2.0 to 2.5 feet bgl in boring SDP-1 was 6.0.

5.0 GROUNDWATER SAMPLING METHODS AND RESULTS

5.1 Field Methods

On July 8, 9 and 10, 2003, groundwater samples were collected for chemical analysis from 2 borings at the retention pond, 17 borings along ditch 7 and 1 boring at the truck scale sump discharge point. On July 22, 23 and 24, 2003, groundwater samples were collected for chemical analysis from 24 borings along ditch 6. The sampling locations are shown in Figure 3.

Groundwater was purged and sampled from each boring using a peristaltic pump and dedicated polyethylene tubing. Prior to sampling, groundwater was purged from each boring until relatively free of sediment. During sampling, groundwater from each boring was placed into two glass, 1-liter amber containers sealed with Teflon[®]-lined screw caps. One of the amber containers was preserved with nitric acid added by the laboratory. Prior to filling the preserved container, groundwater was filtered in the field using a 0.45-micron filter.

The sample containers were labeled and immediately placed in an ice-cooled, insulated chest for transport to the laboratory. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory.

After completion of sampling activities on June 8, 9 and 10, 2003, the borings at the retention pond, ditch 7 and the truck scale sump discharge point were grouted to approximately six inches below grade with cement grout. The top six inches of the borings were backfilled with native material. After completion of the sampling activities on June 22, 23 and 24, 2003, the saturated zone in the borings along ditch 6 were grouted with bentonite chips and the unsaturated zone was backfilled with 3/4-inch gravel in accordance with Caltrans requirements.

All equipment used to collect groundwater samples was dedicated to each boring; therefore, no wash water was generated for disposal.

Purge water generated during groundwater sampling activities was placed in the steel, 55-gallon, DOT-approved drum containing soil sampling equipment wash water (Section 4.1). The drum was sealed and labeled and is being temporarily stored in a secure location at the Site pending disposal (Section 7.0).

5.2 Chemical Analysis Methods

The groundwater samples were submitted for chemical analysis to Alpha of Ukiah, California.

The samples were analyzed for the following constituents:

- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using EPA Method 8015M with silica gel cleanup; and
- Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) using EPA Method 6010B.

The chemical analysis results are summarized in Table 2. Copies of the laboratory reports, including chromatograms, and chain-of-custody records are included in Appendix E.

5.3 Chemical Analysis Results

5.3.1 Retention Pond (Area E)

TEPH as diesel was detected at a concentration of 170 micrograms per liter ($\mu\text{g/L}$) in the groundwater sample from boring RP-1. However, the laboratory indicated that the diesel range detection was primarily due to overlap from a heavier oil range (higher carbon number) compound. TEPH as motor oil was detected at a concentration of 1,100 $\mu\text{g/L}$ in the groundwater sample from boring RP-1. TEPH as diesel and motor oil were not detected at or above the laboratory reporting limits of 50 and 100 $\mu\text{g/L}$, respectively, in the groundwater sample from boring RP-2.

Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) were not detected at or above their respective laboratory reporting limits in the groundwater samples from borings RP-1 and RP-2 (Table 2).

5.3.2 Ditches 6 and 7 (Area F)

TEPH as diesel was detected in 18 of the 24 water samples collected from ditch 6 at concentrations ranging from 59 to 1,000 $\mu\text{g/L}$. However, the laboratory indicated that the detections in the

diesel range were primarily due to overlap from a heavier oil range (higher carbon number) compound. TEPH as motor oil was detected in 19 of the 24 water samples collected from ditch 6 at concentrations ranging from 170 to 4,400 µg/L. TEPH as diesel and motor oil were not detected at or above their respective laboratory reporting limits in the remaining water samples (Table 2).

TEPH as diesel was detected in 14 of the 17 water samples collected from ditch 7 at concentrations ranging from 67 to 880 µg/L. However, the laboratory indicated that the detections in the diesel range were primarily due to overlap from a heavier oil range (higher carbon number) compound. TEPH as motor oil was detected in 15 of the 17 water samples collected from ditch 7 at concentrations ranging from 170 to 4,400 µg/L. TEPH as diesel and motor oil were not detected at or above their respective laboratory reporting limits in the remaining water samples (Table 2).

Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) were not detected at or above their respective laboratory reporting limits in the water samples collected from ditch 6 (Table 2). The only wear metal detected in samples from ditch 7 was dissolved zinc at a concentration of 200 µg/L in sample D7-10-GW. The other wear metals were not detected at or above their respective laboratory reporting limits in sample D7-10-GW, and dissolved wear metals were not detected at or above their respective laboratory reporting limits in the remaining water samples from ditch 7 (Table 2).

5.3.3 Truck Scale Sump Discharge Point (Area G)

TEPH as diesel was detected at a concentration of 300 µg/L in the groundwater sample from boring SDP-1. However, the laboratory indicated that the diesel range detection was primarily due to overlap from a heavier oil range (higher carbon number) compound. TEPH as motor oil was detected at a concentration of 890 µg/L in the groundwater sample from boring SDP-1.

Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) were not detected at or above their respective laboratory reporting limits in the groundwater sample from boring SDP-1 (Table 2).

6.0 SURFACE WATER SAMPLING METHODS AND RESULTS

6.1 Field Methods

On July 24, 2003, a surface water sample was collected for chemical analysis from the retention pond. The approximate sampling location is shown in Figure 3. The surface water sample (RP-3-SW) was collected using the "Direct Method" where two unpreserved, glass, 1-liter amber containers were inverted, submerged, turned upright and allowed to fill, then removed from the water. One of the containers was immediately sealed with a Teflon[®]-lined screw cap. The second container was used to pump the sample through a 0.45-micron filter and into a nitric acid-preserved, glass, 1-liter amber container using a peristaltic pump and polyethylene tubing. The preserved container was then sealed with a Teflon[®]-lined screw cap.

All equipment used to collect the surface water sample was dedicated; therefore, no wash water was generated for disposal.

6.2 Chemical Analysis Methods

The surface water sample was submitted for chemical analysis to Alpha of Ukiah, California. The sample was analyzed for the following constituents:

- Total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil using EPA Method 8015M with silica gel cleanup; and
- Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) using EPA Method 6010B.

The chemical analysis results are summarized in Table 3. Copies of the laboratory report, including chromatograms, and the chain-of-custody record are included in Appendix E.

6.3 Chemical Analysis Results

TEPH as diesel was detected at a concentration of 60 µg/L. However, the laboratory indicated that the chromatogram pattern for the sample did not resemble the pattern of the diesel standard used by the laboratory. TEPH as motor oil was detected at a concentration of 120 µg/L.

Dissolved wear metals (cadmium, chromium, lead, nickel and zinc) were not detected at or above their respective laboratory reporting limits (Table 3).

7.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

Soil cuttings and equipment wash water are being stored temporarily at the Site in steel, 55-gallon drums (Section 4.1 and 5.1). The investigation-derived waste from this investigation will be disposed of in accordance with applicable regulations by SPI.

8.0 REFERENCES

Environet Consulting (Environet), 2003, *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*: January 30.

TABLES

TABLE 1
SUMMARY OF CHEMICAL ANALYSIS RESULTS OF SOIL SAMPLES FOR
OIL AND GREASE, CHLORINATED PHENOLS, WEAR METALS AND pH

Sierra Pacific Industries
 Arcata Division Sawmill
 Arcata, California

SAMPLE ID	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (ft bgl)	TOTAL OIL AND GREASE (mg/kg)	OIL AND GREASE (mg/kg)	CHLORINATED PHENOLS					CADMIUM (mg/kg)	CHROMIUM (mg/kg)	LEAD (mg/kg)	NICKEL (mg/kg)	ZINC (mg/kg)	pH (Std. Units)
						2,3,4,5-TETRA-CHLORO-PHENOL (mg/kg)	2,3,4,6-TETRA-CHLORO-PHENOL (mg/kg)	2,3,5,6-TETRA-CHLORO-PHENOL (mg/kg)	2,4,6-TRI-CHLORO-PHENOL (mg/kg)	PENTA-CHLORO-PHENOL (mg/kg)						
RP-1-0.0-0.5*	08-Jul-03	Retention Pond	0.0-0.5	12,000	6,400	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	48	17	58	150	5.1
RP-1-0.5-1.0*	08-Jul-03	Retention Pond	0.5-1.0	16,000	13,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	110	17	210	140	5.2
RP-1-1.0-1.5*	08-Jul-03	Retention Pond	1.0-1.5	40,000	25,000	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	49	22	86	140	5.1
RP-1-1.5-2.0*	08-Jul-03	Retention Pond	1.5-2.0	11,000	5,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	50	27	72	100	5.1
RP-1-2.0-2.5*	08-Jul-03	Retention Pond	2.0-2.5	6,200	7,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	43	14	68	63	5.8
RP-2-0.0-0.5*	08-Jul-03	Retention Pond	0.0-0.5	1,400	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	28	<10	61	5.2
RP-2-0.5-1.0*	08-Jul-03	Retention Pond	0.5-1.0	120	130	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25	8.8	22	55	5.7
RP-2-1.0-1.5*	08-Jul-03	Retention Pond	1.0-1.5	300	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18	12	18	53	6.1
RP-2-1.5-2.0*	08-Jul-03	Retention Pond	1.5-2.0	260	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	<5.0	16	18	6.0
RP-2-2.0-2.5*	08-Jul-03	Retention Pond	2.0-2.5	260	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18	<5.0	16	19	5.8
D6-1-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	3,700	1,600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	31	56	110	6.2
D6-2-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	12,000	6,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	48	59	63	190	6.4
D6-3-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	10,000	4,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	44	37	58	280	6.4
D6-4-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	5,800	1,600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	40	29	49	160	6.4
D6-5-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	3,800	1,900	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	37	24	44	76	6.6
D6-6-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	3,700	1,500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34	23	41	120	6.4
D6-7-0.0-0.5	22-Jul-03	Ditch 6	0.0-0.5	1,200	540	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25	8.6	30	39	6.5
D6-8-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	1,200	580	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23	18	31	58	6.4
D6-9-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	660	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	7.9	22	46	6.4
D6-10-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	1,100	340	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	33	13	35	51	6.6
D6-11-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	2,400	1,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	51	12	61	56	5.4
D6-12-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	9,800	4,300	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	37	31	42	240	5.0
D6-13-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	1,500	650	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	29	15	32	58	5.8

**TABLE 1
SUMMARY OF CHEMICAL ANALYSIS RESULTS OF SOIL SAMPLES FOR
OIL AND GREASE, CHLORINATED PHENOLS, WEAR METALS AND pH**

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (ft bgl)	TOTAL OIL AND GREASE (mg/kg)	OIL AND GREASE (mg/kg)	CHLORINATED PHENOLS					CADMIUM (mg/kg)	CHROMIUM (mg/kg)	LEAD (mg/kg)	NICKEL (mg/kg)	ZINC (mg/kg)	pH (Std. Units)
						2,3,4,5-TETRA-CHLORO-PHENOL (mg/kg)	2,3,4,6-TETRA-CHLORO-PHENOL (mg/kg)	2,3,5,6-TETRA-CHLORO-PHENOL (mg/kg)	2,4,6-TRI-CHLORO-PHENOL (mg/kg)	PENTA-CHLORO-PHENOL (mg/kg)						
D6-14-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	4,800	1,800	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	18	22	110	6.2
D6-15-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	4,300	2,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	11	18	110	5.8
D6-16-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	4,900	2,400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20	9.5	24	78	6.0
D6-17-0.0-0.5	23-Jul-03	Ditch 6	0.0-0.5	1,200	320	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34	12	23	19	5.9
D6-18-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	1,400	130	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25	5.2	<10	30	6.2
D6-19-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	2,600	1,400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19	8.1	17	49	6.7
D6-20-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	2,100	890	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	28	9.8	27	37	6.1
D6-21-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	530	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	29	<5.0	10	14	5.3
D6-22-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	380	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	31	<5.0	28	21	6.3
D6-23-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	280	170	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	32	<5.0	29	17	5.3
D6-24-0.0-0.5	24-Jul-03	Ditch 6	0.0-0.5	140	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35	8.8	25	48	5.2
D7-1-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	1,900	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18	12	23	170	6.3
D7-2-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	3,100	780	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	44	18	42	140	6.1
D7-3-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	1,900	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	16	13	21	60	6.2
D7-4-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	4,100	1,500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	14	18	150	6.3
D7-5-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	8,800	3,200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	12	11	39	5.1
D7-6-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	160	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	44	<5.0	35	23	5.2
D7-7-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	130	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46	<5.0	35	27	5.4
D7-8-0.0-0.5*	09-Jul-03	Ditch 7	0.0-0.5	1,800	1,200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	36	5.8	29	34	5.7
D7-9-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	2,300	320	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	40	20	41	140	6.0
D7-10-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	1,400	630	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20	23	46	370	6.0
D7-11-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	17,000	6,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	38	35	38	120	5.9
D7-12-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	1,100	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	44	13	38	75	6.0

TABLE 1
SUMMARY OF CHEMICAL ANALYSIS RESULTS OF SOIL SAMPLES FOR
OIL AND GREASE, CHLORINATED PHENOLS, WEAR METALS AND pH

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (ft bgl)	TOTAL OIL AND GREASE (mg/kg)	OIL AND GREASE (mg/kg)	CHLORINATED PHENOLS					CADMIUM (mg/kg)	CHROMIUM (mg/kg)	LEAD (mg/kg)	NICKEL (mg/kg)	ZINC (mg/kg)	pH (Std. Units)
						2,3,4,5-TETRA-CHLORO-PHENOL (mg/kg)	2,3,4,6-TETRA-CHLORO-PHENOL (mg/kg)	2,3,5,6-TETRA-CHLORO-PHENOL (mg/kg)	2,4,6-TRI-CHLORO-PHENOL (mg/kg)	PENTA-CHLORO-PHENOL (mg/kg)						
D7-13-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	4,100	960	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	6.2	17	70	6.1
D7-14-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	2,800	840	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	16	7.6	24	110	5.7
D7-15-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	3,100	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	27	12	36	100	6.0
D7-16-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	8,000	7,200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	32	25	39	210	6.3
D7-17-0.0-0.5*	10-Jul-03	Ditch 7	0.0-0.5	26,000	11,000	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	31	27	35	460	5.6
SDP-1-0.0-0.5*	09-Jul-03	Sump Discharge Point	0.0-0.5	8,100	3,600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	44	31	61	160	6.7
SDP-1-2.0-2.5*	09-Jul-03	Sump Discharge Point	2.0-2.5	460	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	<5.0	49	37	6.0

NOTES:

ft bgl Feet below ground level.

mg/kg Milligrams per kilogram.

< Target analyte was not detected at or above the laboratory reporting limit shown.

* Indicates that the Total Oil and Grease analysis and the Oil and Grease analysis (silica gel cleanup) were performed on extracts prepared from different aliquots of this soil sample, because the original extract (used for the Total Oil and Grease analysis) had already been disposed by the laboratory.

Total oil and grease analyzed by EPA Method 9071B.

Oil and grease analyzed by EPA Method 9071B with silica gel cleanup.

Chlorinated phenols analyzed by the Canadian Pulp Method.

Metals analyzed by EPA Method 6010.

pH analyzed by EPA Method 9045B.

TABLE 2
SUMMARY OF CHEMICAL ANALYSIS RESULTS
OF GROUNDWATER SAMPLES FOR TEPH AND DISSOLVED WEAR METALS

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

SAMPLE ID	SAMPLE LOCATION	DATE SAMPLED	TEPH AS DIESEL (ug/L)	TEPH AS MOTOR OIL (ug/L)	CADMIUM (ug/L)	CHROMIUM (ug/L)	LEAD (ug/L)	NICKEL (ug/L)	ZINC (ug/L)
RP-1-GW	Retention Pond	08-Jul-03	170 *	1,100	<10	<50	<50	<100	<100
RP-2-GW	Retention Pond	08-Jul-03	<50	<100	<10	<50	<50	<100	<100
D6-1-GW	Ditch 6	22-Jul-03	190 *	1,000	<10	<50	<50	<100	<100
D6-2-GW	Ditch 6	22-Jul-03	440 *	2,000	<10	<50	<50	<100	<100
D6-3-GW	Ditch 6	22-Jul-03	250 *	930	<10	<50	<50	<100	<100
D6-4-GW	Ditch 6	22-Jul-03	670 *	2,500	<10	<50	<50	<100	<100
D6-5-GW	Ditch 6	22-Jul-03	<71	380	<10	<50	<50	<100	<100
D6-6-GW	Ditch 6	22-Jul-03	380 *	1,400	<10	<50	<50	<100	<100
D6-7-GW	Ditch 6	22-Jul-03	290 *	1,200	<10	<50	<50	<100	<100
D6-8-GW	Ditch 6	23-Jul-03	220 *	830	<10	<50	<50	<100	<100
D6-9-GW	Ditch 6	23-Jul-03	59 *	250	<10	<50	<50	<100	<100
D6-10-GW	Ditch 6	23-Jul-03	<61	<120	<10	<50	<50	<100	<100
D6-11-GW	Ditch 6	23-Jul-03	<55	<110	<10	<50	<50	<100	<100
D6-12-GW	Ditch 6	23-Jul-03	74 *	170	<10	<50	<50	<100	<100
D6-13-GW	Ditch 6	23-Jul-03	58 *	170	<10	<50	<50	<100	<100
D6-14-GW	Ditch 6	23-Jul-03	500 *	2,500	<10	<50	<50	<100	<100
D6-15-GW	Ditch 6	23-Jul-03	1,000 *	4,400	<10	<50	<50	<100	<100
D6-16-GW	Ditch 6	23-Jul-03	440 *	2,100	<10	<50	<50	<100	<100
D6-17-GW	Ditch 6	23-Jul-03	310 *	1,300	<10	<50	<50	<100	<100
D6-18-GW	Ditch 6	24-Jul-03	320 *	1,300	<10	<50	<50	<100	<100
D6-19-GW	Ditch 6	24-Jul-03	80 *	320	<10	<50	<50	<100	<100
D6-20-GW	Ditch 6	24-Jul-03	63 *	190	<10	<50	<50	<100	<100
D6-21-GW	Ditch 6	24-Jul-03	130 *	430	<10	<50	<50	<100	<100
D6-22-GW	Ditch 6	24-Jul-03	<56	<110	<10	<50	<50	<100	<100
D6-23-GW	Ditch 6	24-Jul-03	<58	<120	<10	<50	<50	<100	<100

TABLE 2
SUMMARY OF CHEMICAL ANALYSIS RESULTS
OF GROUNDWATER SAMPLES FOR TEPH AND DISSOLVED WEAR METALS

Sierra Pacific Industries
 Arcata Division Sawmill
 Arcata, California

SAMPLE ID	SAMPLE LOCATION	DATE SAMPLED	TEPH AS DIESEL (ug/L)	TEPH AS MOTOR OIL (ug/L)	CADMIUM (ug/L)	CHROMIUM (ug/L)	LEAD (ug/L)	NICKEL (ug/L)	ZINC (ug/L)
D6-24-GW	Ditch 6	24-Jul-03	<55	<110	<10	<50	<50	<100	<100
D7-1-GW	Ditch 7	09-Jul-03	<54	170	<10	<50	<50	<100	<100
D7-2-GW	Ditch 7	09-Jul-03	85 *	240	<10	<50	<50	<100	<100
D7-3-GW	Ditch 7	09-Jul-03	<50	<100	<10	<50	<50	<100	<100
D7-4-GW	Ditch 7	09-Jul-03	67 *	280	<10	<50	<50	<100	<100
D7-5-GW	Ditch 7	09-Jul-03	560 *	4,100	<10	<50	<50	<100	<100
D7-6-GW	Ditch 7	09-Jul-03	70 *	380	<10	<50	<50	<100	<100
D7-7-GW	Ditch 7	09-Jul-03	<56	<110	<10	<50	<50	<100	<100
D7-8-GW	Ditch 7	09-Jul-03	240 *	1,500	<10	<50	<50	<100	<100
D7-9-GW	Ditch 7	10-Jul-03	300 *	1,600	<10	<50	<50	<100	<100
D7-10-GW	Ditch 7	10-Jul-03	220 *	1,500	<10	<50	<50	<100	200
D7-11-GW	Ditch 7	10-Jul-03	190 *	1,500	<10	<50	<50	<100	<100
D7-12-GW	Ditch 7	10-Jul-03	140 *	810	<10	<50	<50	<100	<100
D7-13-GW	Ditch 7	10-Jul-03	310 *	1,700	<10	<50	<50	<100	<100
D7-14-GW	Ditch 7	10-Jul-03	180 *	1,300	<10	<50	<50	<100	<100
D7-15-GW	Ditch 7	10-Jul-03	310 *	2,600	<10	<50	<50	<100	<100
D7-16-GW	Ditch 7	10-Jul-03	880 *	4,400	<10	<50	<50	<100	<100
D7-17-GW	Ditch 7	10-Jul-03	380 *	2,100	<10	<50	<50	<100	<100
SDP-1-GW	Sump Discharge Point	09-Jul-03	300 *	890	<10	<50	<50	<100	<100

NOTES:

TEPH Total extractable petroleum hydrocarbons analyzed by EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.

ug/L Micrograms per liter.

< Target analyte was not detected at or above the laboratory reporting limit shown.

* Laboratory indicated that the diesel range result is primarily due to overlap from a heavier oil range compound (i.e., higher carbon number).

Dissolved metals analyzed by EPA Method 6010.

TABLE 3
SUMMARY OF CHEMICAL ANALYSIS RESULTS OF THE SURFACE WATER SAMPLE
COLLECTED FROM THE RETENTION POND FOR TEPH AND DISSOLVED WEAR METALS

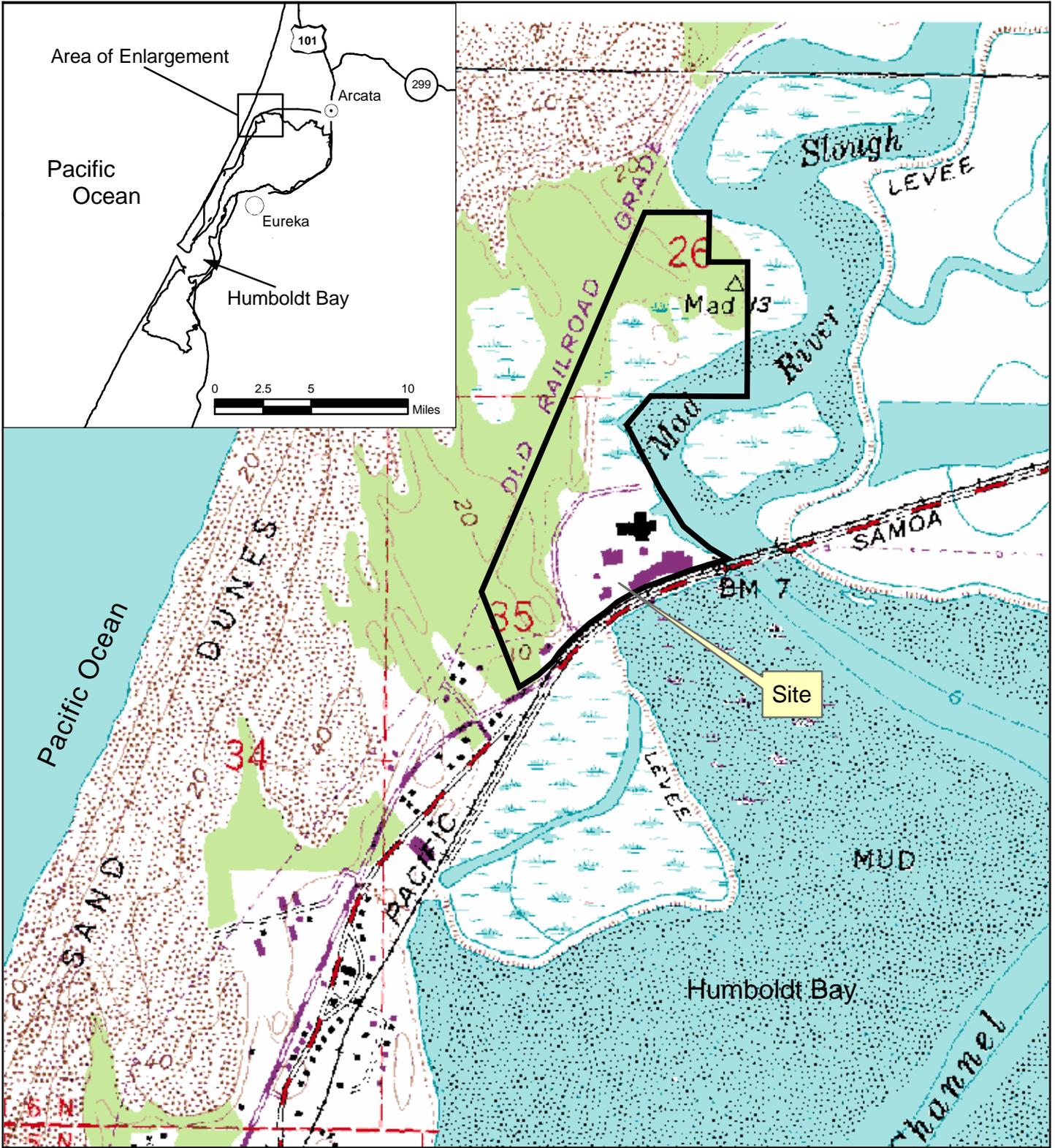
Sierra Pacific Industries
 Arcata Division Sawmill
 Arcata, California

SAMPLE ID	DATE SAMPLED	TEPH AS DIESEL (ug/L)	TEPH AS MOTOR OIL (ug/L)	CADMIUM (ug/L)	CHROMIUM (ug/L)	LEAD (ug/L)	NICKEL (ug/L)	ZINC (ug/L)
RP-3-SW	24-Jul-03	60 *	120	<10	<50	<50	<100	<100

NOTES:

- TEPH Total extractable petroleum hydrocarbons analyzed by EPA Method 8015 with silica gel cleanup and quantified against diesel and motor oil standards.
- ug/L Micrograms per liter.
- < Target analyte was not detected at or above the laboratory reporting limit shown.
- * Laboratory indicated that the chromatogram pattern did not resemble the pattern of the diesel standard used.
 Dissolved metals analyzed by EPA Method 6010.

FIGURES



Source: USGS 24k Digital Raster Graph, Eureka Quadrangle, Year - 1972

— Site Boundary

0 500 1,000 2,000

Feet

Approximate Scale



LOCATION MAP

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Project No. 030229

By: I.Pryor

Date: 6/6/03

Checked: O.Plocher

Figure 1

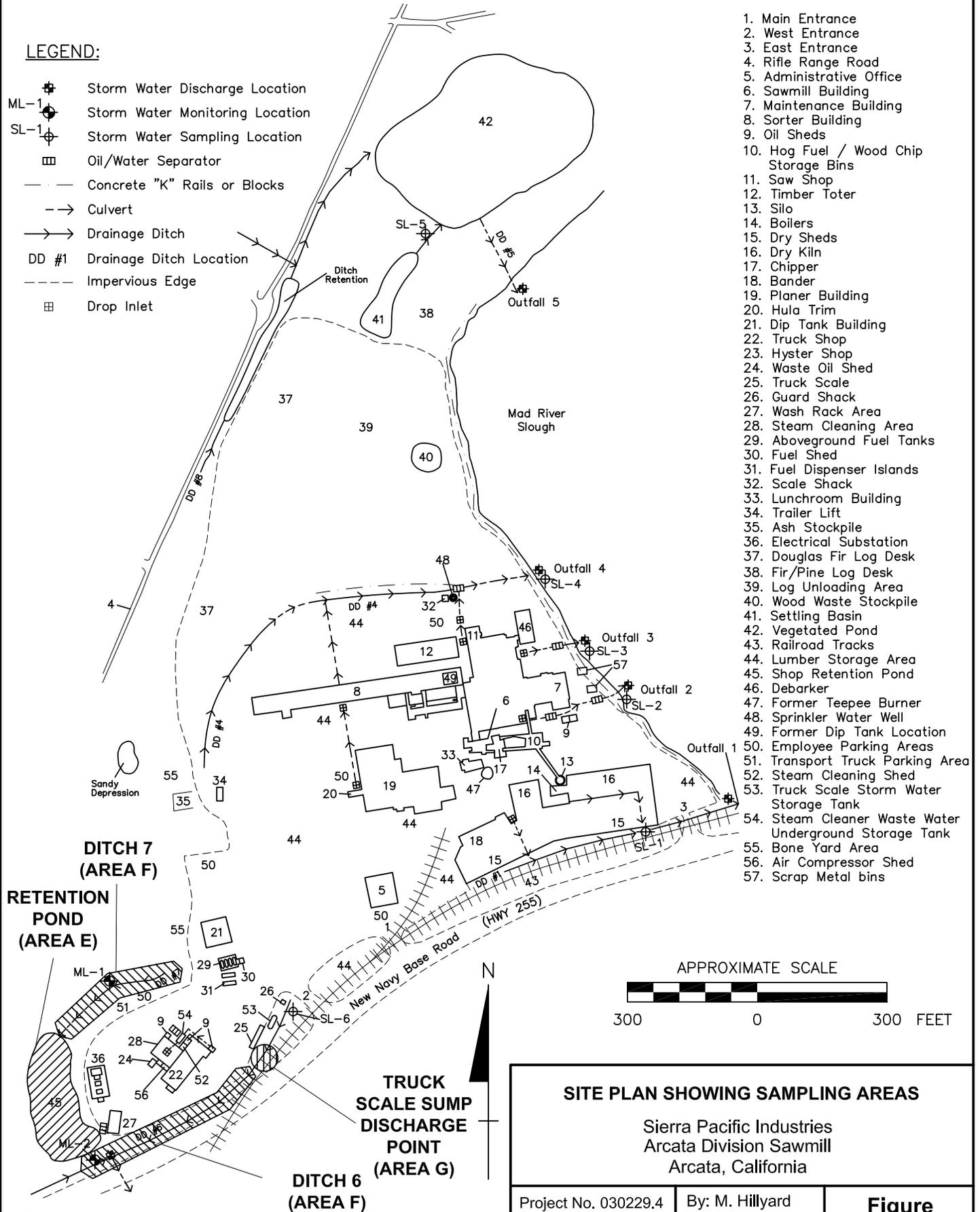
MFG, Inc.

consulting scientists and engineers

LEGEND:

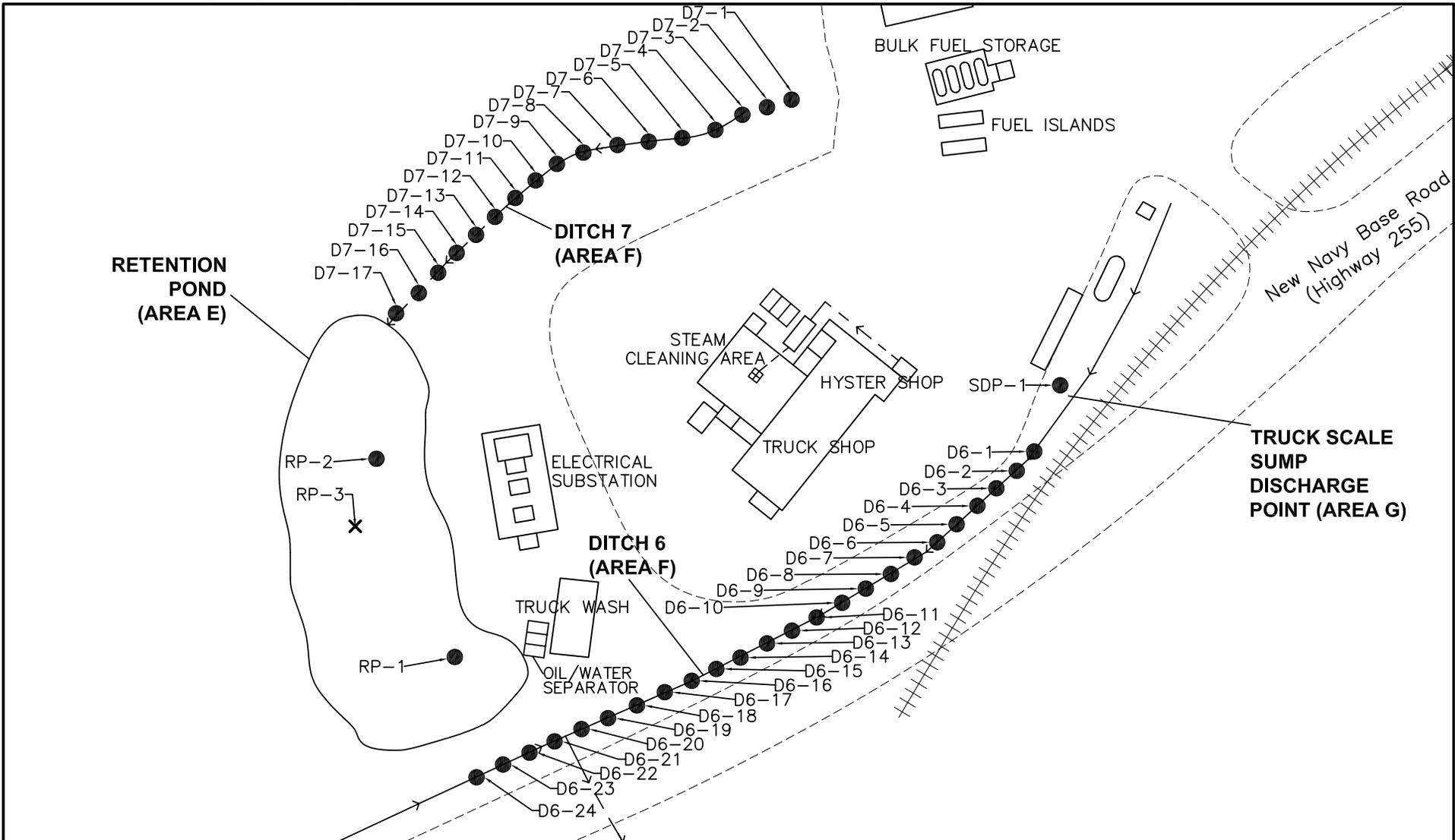
- ⊕ Storm Water Discharge Location
- ML-1 ⊕ Storm Water Monitoring Location
- SL-1 ⊕ Storm Water Sampling Location
- ▣ Oil/Water Separator
- Concrete "K" Rails or Blocks
- > Culvert
- Drainage Ditch
- DD #1 Drainage Ditch Location
- - - Impervious Edge
- ⊕ Drop Inlet

1. Main Entrance
2. West Entrance
3. East Entrance
4. Rifle Range Road
5. Administrative Office
6. Sawmill Building
7. Maintenance Building
8. Sorter Building
9. Oil Sheds
10. Hog Fuel / Wood Chip Storage Bins
11. Saw Shop
12. Timber Toter
13. Silo
14. Boilers
15. Dry Sheds
16. Dry Kiln
17. Chipper
18. Bander
19. Planer Building
20. Hula Trim
21. Dip Tank Building
22. Truck Shop
23. Hyster Shop
24. Waste Oil Shed
25. Truck Scale
26. Guard Shack
27. Wash Rack Area
28. Steam Cleaning Area
29. Aboveground Fuel Tanks
30. Fuel Shed
31. Fuel Dispenser Islands
32. Scale Shack
33. Lunchroom Building
34. Trailer Lift
35. Ash Stockpile
36. Electrical Substation
37. Douglas Fir Log Desk
38. Fir/Pine Log Desk
39. Log Unloading Area
40. Wood Waste Stockpile
41. Settling Basin
42. Vegetated Pond
43. Railroad Tracks
44. Lumber Storage Area
45. Shop Retention Pond
46. Debarker
47. Former Teepee Burner
48. Sprinkler Water Well
49. Former Dip Tank Location
50. Employee Parking Areas
51. Transport Truck Parking Area
52. Steam Cleaning Shed
53. Truck Scale Storm Water Storage Tank
54. Steam Cleaner Waste Water Underground Storage Tank
55. Bone Yard Area
56. Air Compressor Shed
57. Scrap Metal bins



NOTES:
 Site plan modified from Plate 2B in *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by Environet Consulting.
 Building dimensions and locations are approximate.

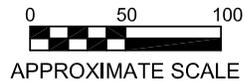
SITE PLAN SHOWING SAMPLING AREAS		
Sierra Pacific Industries Arcata Division Sawmill Arcata, California		
Project No. 030229.4	By: M. Hillyard	Figure 2
Date: Sept. 30, 2003	Checked: CGS	
MFG, Inc. consulting scientists and engineers		



LEGEND

- APPROXIMATE LOCATION AND DESIGNATION OF SOIL AND GROUNDWATER SAMPLES
- D7-1
- ✕ APPROXIMATE LOCATION AND DESIGNATION OF SURFACE WATER SAMPLE
- RP-3
- IMPERVIOUS EDGE (PAVEMENT)
- DRAINAGE DITCH AND FLOW DIRECTION

NOTE:
 Site plan modified from *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by Environet Consulting.



SAMPLING LOCATIONS

Sierra Pacific Industries
 Arcata Division Sawmill
 Arcata, California

Project No. 030229.4	By: M. Hillyard
Date: Oct 3, 2003	Checked: CGS

Figure 3

MFG, Inc.
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APPENDIX A

**Humboldt County Division of Environmental Health
Boring Permit**

HUMBOLDT COUNTY DIVISION of ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS UNIT
WELL and BORING PERMIT APPLICATION

Facility ID # 1 NHU 526 Permit # 27-G

Facility Name: Sierra Pacific Industries, Arcata Sawmill Division

Site Address: 2293 Samoa Road, Arcata, CA

Site Owner: Sierra Pacific Industries Telephone: 830-378-8000

Address: PO Box 496028 Redding, CA 96049-6028 AP#: _____

RP Name: Sierra Pacific Industries Telephone: 530-378-8000

Address: PO Box 496028 Redding, CA 96049-6028

Consultant: MFB, Inc. - Orrin Plocher Telephone: 707-826-8430

Address: 1165 G. Street, Suite E Arcata, CA 95521 Reg.#/Type: _____

Driller: NA Telephone: _____

Address: _____ C-57 Lic.#: _____

# On-site		# Off-site	
Wells	1	Wells	
Borings	<u>44</u>	Borings	

Activity: Construct Destroy Repair/Modify Electrode Type: _____

Well Type: Monitoring Well Injection Well Vapor Extraction Geologic Boring
 Extraction Well Piezometer Vapor Point Soil Gas Survey
 Vadose Well Cathodic Protection Direct Push Boring Temporary Well Point

Investigation Type: Site Assessment Disposal Practice UST Other*
 Surface Contamination Surface Impoundment AST

*Specify: _____

Investigation Phase: Initial Subsequent Remediation Closure

Suspected Contaminants: Petroleum compounds, chlorinated phenols, pH

Disposal/Containment for Soil Cuttings: Ashberry / DOT - 55 gallon Drum

Disposal/Containment for Rinsate: Ashberry / DOT - 55 gallon Drum

Disposal/Containment for Development Water: Ashberry / DOT - 55 gallon Drum

Permits will not be processed with out the following information:

- Scaled Construction Detail
- Detailed Site Plan
- Lead Agency Approval Letter
- Off Site Well Requirements:
 - Legal Right of Entry
 - Off Site Address/Location
 - Encroachment Permit
 - Coastal Zone Permit
- Appropriate Fees
- Copy of Workplan (if not on file at HCDEH)

Proposed Work Date: 7/7/03 - 7/11/03

HUMBOLDT COUNTY DIVISION of ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS UNIT
WELL and BORING PERMIT APPLICATION

Facility ID # 1 NHU526 Permit # 27-G

I hereby agree to comply with all laws, ordinances and regulations of the county of Humboldt and State of California pertaining to water well construction. I will contact the Humboldt County Hazardous Materials Unit at (707) 445-6215 five (5) working days prior to commencing this work. I will furnish to the County of Humboldt, Division of Environmental Health, and the owner a legible copy of the State Water Well Completion Report (form DWR 188) within fifteen (15) days after completion of work to obtain final approval of the well(s). I acknowledge that the application will become a permit ONLY after site approval by the Local Implementing Agency (HCDEH, NCRWQCB, DTSC, EPA). I understand this permit is not transferable and expires one hundred twenty (120) days from the date of issuance.

Certificates of Insurance:

- A currently effective General Liability Certificate of Insurance is on file with this office, endorsed to include the Humboldt County Division of Environmental Health as additional named insured.
- A currently effective Worker's Compensation Certificate of Insurance is on file with this office, endorsed to include the Humboldt County Division of Environmental Health as additional named insured.

Harold Ayer (MFG) _____ Date _____
Signature of Well Driller - no proxies - original signature only in blue ink

- Well identification number and type must be affixed to exterior surface of security structure.
- The applicant is responsible for notifying Underground Services Alert at least 48 hours prior to the scheduled work date.
- A State of California Department of Water resources Well Completion Report (Form DWR 1-88) must be filed within 15 days of completion of work for all well completions and destructions.
- A licensed California C-57 Well Driller is required for all wells and direct push work.

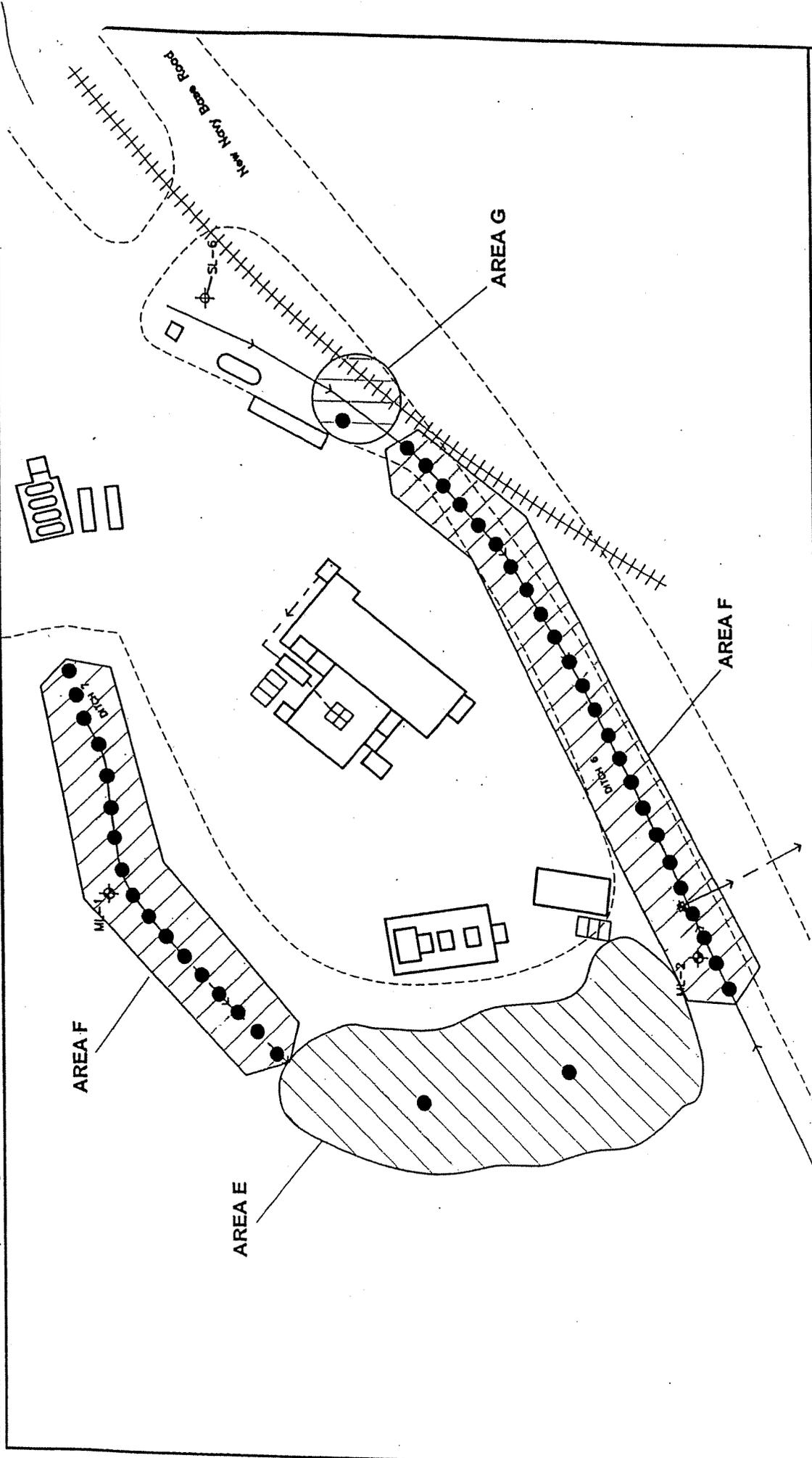
FOR OFFICE USE ONLY

Permit Approval: Norman Crawford Date: 6/30/2003

Fee: \$395.00 Date: 6/30/2003 Receipt: 219512

Initial Inspection: _____ Date: _____

Final Inspection: _____ Date: _____



PROPOSED SAMPLING LOCATIONS		Figure 2
AT AREAS E, F AND G Sierra Pacific Industries Arcata Division Sawmill Arcata, California		
Project No. 030229.4	By: C. Spill	Checked: <i>CS</i>
Date: 5/28/03		

LEGEND

- PROPOSED APPROXIMATE SAMPLING LOCATION

0 50 100
 APPROXIMATE SCALE

NOTE:
 Site plan modified from Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by EnviroNet.

MFG, Inc.
 consulting scientists and engineers

Conti, Ed -- MFG, Inc.

From: Dean Prat [PratD@rb1.swrcb.ca.gov]
Sent: Friday, June 13, 2003 3:38 PM
To: Ed.Conti@mfgenv.com
Cc: Tuck Vath; bellery@spi-ind.com
Subject: Retention Pond, Ditches 6 and 7 and Truck Scale Sump Discharge Point Investigation

Dear Mr. Conti,
I have reviewed the Retention Pond, Ditches 6 and 7 , and Truck Scale Sump Discharge Point Investigation (workplan) for the Sierra-Pacific Industries-Arcata Division Sawmill dated May 28, 2003. I concur with implementation of the workplan.

Sincerely,
Dean Prat
707-576-2801

APPENDIX B

California Department of Transportation Encroachment Permit

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT
 TR-0120 (REV. 5/92)

Permit No. 0103-6-SV-0350	
Dist/Co/Rte/PM 1-HUM-255-R4.83/R4.92	
Date JULY 11, 2003	
Fee Paid \$	Deposit \$ 320.00
Performance Bond Amount (1) \$	Performance Bond Amount (2) \$
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

- Your application of **JUNE 18, 2003**
- Utility Notice No. _____ of _____
- Agreement No. _____ of _____
- R/W Contract No. _____ of _____

PERMIT EXPIRES
JANUARY 31, 2004

TO: _____
 MFG, INC.
 1165 "G" STREET, SUITE E
 ARCATA, CA, 95521

ATTN: Matt Hillyard, EIT
 PHONE: (707) 826-8430

_____, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

Enter the State highway right of way at Post Mile R4.83 and R4.92 of State Route 1-HUM-255 (New Navy Base Road) to perform soil and ground water sampling of borings as outlined in the attached Permittee-submitted sketch (Figures 1 & 2) received by the Caltrans Encroachment Permits Office on January 18, 2003.

VERNON J. CALLAHAN, ASSISTANT PERMIT ENGINEER AT EUREKA (TELEPHONE 707-445-6679) SHALL BE NOTIFIED 5 DAYS BEFORE WORK IS STARTED.

THE CALTRANS ELECTRICAL SUPERVISOR, RICK MCDANIEL AT SAMOA, (707)-441-2039 SHALL BE NOTIFIED 3 WORKING DAYS BEFORE WORK IS TO BEGIN SO ANY CALTRANS ELECTRICAL FACILITIES MAY BE LOCATED.

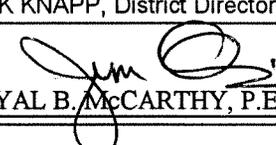
USA-N (Underground Service Alert - North) shall be notified at 1-800-642-2444 2 working days before work begins.

In addition to the attached Encroachment General Provisions, Form TR-0045 (Rev. 6/2000) the following special provisions are also applicable:

The following attachments are also included as part of this permit (Check applicable):		In addition to fee, the permittee will be billed actual costs for:	
<input checked="" type="checkbox"/> Yes	General Provisions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No Review
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No Utility Maintenance Provisions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No Inspection
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No Special Provisions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No Field Work
<input checked="" type="checkbox"/> Yes*	<input type="checkbox"/> No A Cal-OSHA permit required prior to beginning work;	<i>(If any Caltrans effort expended)</i>	
	* If work is done in trenches deeper than 1.52m (5')		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No The information in the environmental documentation has been reviewed and is considered prior to approval of this permit.		

This permit is void unless the work is complete before **JANUARY 31, 2004**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized. No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

SP WOODMAN VJ CALLAHAN	TL LIBOLT ANN JONES	APPROVED: RICK KNAPP, District Director
RBM Permit Writer: James A. Pena	FILE	BY:  ROYAL B. McCARTHY, P.E., District Permit Engineer

I. TEST BORING PERFORMANCE & ABANDONMENT

1. Vernon J. Callahan, Assistant Permit Engineer at Eureka, shall approve the actual location of the test borings in advance of the work.
2. The Permittee shall provide and maintain through the work area at all times a safe walk way for pedestrians and bicycles which shall be a minimum of 1.2 m (4') wide. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. If adjacent alternate walkways cannot be provided, appropriate signs and barricades shall be installed at the limits of the work area and in advance of the closure at the nearest cross walk or intersection to divert pedestrians across the street. All signs must be orange or white with black lettering at least 100 mm (4") tall. The signs, barricades detour plan shall be approved by Vernon Callahan, Assistant Permit Engineer at Eureka, (707- 445-6679) before work begins.
3. The Permittee shall take whatever measures necessary to protect the existing highway storm drainage system from sediment and debris infiltration during the work.
4. All water generated by work operations shall be contained, filtered, or removed to a proper disposal site. Slurry from saw cutting or drilling operations shall be vacuumed immediately behind the saw cutting operation or prior to drying on drilling operations. Saw-cutting slurry shall be disposed of at a legal disposal site. Only clean water shall be allowed to enter drainage inlets or waterways. All soil exposed by work operations shall be protected from erosion and sediment migration.
5. Excavations shall be backfilled prior to the end of the shift, protected by signs and flaggers.
6. When monitoring is completed the wells shall be abandoned by back filling with a suitable material approved by Vernon J. Callhan, Assistant Permits Engineer, at Eureka and by removing the top portion of the existing wells, no less than 0.3 m (1') below finished grade. The top 200 mm (8") shall consist of topsoil that shall support plant growth and shall be seeded to match the surrounding area.
7. All drill cuttings shall be removed from the work site for disposal appropriate to lab test results.
8. **JON HEDLUND OF THE CALTRANS NORTH REGION HAZARDOUS WASTE OFFICE AT (707) 445-6325 SHALL BE PROVIDED WITH A COPY OF THE SITE INVESTIGATION REPORT.** The report shall be mailed to the following address:

Caltrans North Region Hazardous Waste Office
ATTN: Jon D. Headland
1656 Union Street
Eureka, CA 95501
9. All personnel performing work under this permit shall wear personal protective equipment, including hard hats, orange vests, gloves, and safety glasses while on State highway right of way.

II. TRAFFIC CONTROL

1. By Noon Monday, the Permittee/Contractor shall fax to Adolpho Gonzales, Caltrans Traffic Operations (fax #707 441-3914) and to Vernon J. Callahan, Assistant Permit Engineer (fax #707 445-6317) a written schedule of planned closures for the following week period, defined as Friday Noon through the following Friday Noon. The term closure, as used herein, is defined as the closure of a traffic lane or lanes, including ramp or connector lanes, within a single traffic control system. The Closure Schedule shall take the form of the attached *District 1 Lane Closure Request Form* furnished by the Engineer and shall show the locations and times when the proposed closures are to be in effect. Closure Request Forms submitted to the Engineer and Traffic Operations with incomplete, unintelligible or inaccurate information will be returned for correction and resubmittal. The Contractor/Permittee will be notified of disapproved closures or closures that require coordination with other parties as a condition of approval. Restrictions on hours and days that a lane can be closed are found on the attached *Traffic Control Restrictions*.

2. All traffic control shall conform to the State of California, Department of Transportation; **“MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION & MAINTENANCE WORK ZONES-REVISION 2”** dated 1996 (Chapter 5 of the current Caltrans Traffic Manual) **EXCEPT FOR THE FOLLOWING MODIFICATIONS:**

- a.) Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas the Permittee shall close the adjacent traffic lane only after approval by Vernon J. Callahan, Assistant Permit Engineer at Eureka:

Approach speed of public
traffic (Posted Limit)
(Miles per Hour)

Work Area

Over 45

Within 1.8 m (6') of
a traffic lane but not
on a traffic lane.

35 to 45

Within 0.6 m (3') of
a traffic lane but not
on a traffic lane.

- b.) Traffic control, which requires a lane closure, shall be in accordance with the attached, **Caltrans Standard Plan T-13, “TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO-LANE CONVENTIONAL HIGHWAYS”**. Advance & Backup flaggers in each direction shall be required.
- c.) Lane closures are prohibited weekdays from 0700-0900 hours and from 1500 -1800 hours.
- d.) For work performed outside the distances described in 2(a) above the shoulder shall be closed in accordance with the attached **Caltrans Standard Plan T-10, “SHOULDER CLOSURE”** illustration.
- e.) When flaggers are not present trucks shall not back on to /off the highway.
- f.) When flaggers are present the full complement of signs as required by the **“MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES-REVISION 1” DATED 1996** shall be in place.
- g.) All work that requires flaggers shall be completed in one workday.
- h.) All flaggers shall be provided the opportunity to read the attached Caltrans; **“Flagging Instruction Handbook”** dated April 1999. Additional copies are available through the Caltrans Publications Distribution Unit, 1900 Royal Oaks Drive, Sacramento, CA 95815-Telephone (916) 445-3520 Fax # (916) 324-8997.
- i.) When the work area encroaches upon a sidewalk, walkway or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails and bridges, together with warning and guidance devices and signs must be utilized so that the passageway for pedestrians, especially blind and other physically handicapped, is safe and well defined. **A PLAN SHOWING HOW PEDESTRIANS WILL BE HANDLED SHALL BE SUBMITTED TO AND APPROVED BY VERNON CALLAHAN PRIOR TO BEGINNING WORK.**
- j.) Bicycles shall be accommodated through the work zone.
- k.) Project work shall not restrict commerce or access to businesses. If it becomes necessary to restrict access to any local businesses to accomplish work the work shall be scheduled to occur outside of normal business hours.
- l.) The Permittee shall provide signing to notify the public of any planned parking prohibition at least one-week prior to any planned work.
- m.) A minimum of one paved lane not less than 3.6 m (12') and an associated 1.2 m (4') shoulder in each direction of travel shall remain available at all times.

- n.) Any emergency service agency whose ability to respond to incidents may be hampered by a lane closure caused by the construction shall be notified prior to that closure.
- o.) A minimum of one PCMS in advance of either end of the construction site (2 PCMS per location) shall be required in order to notify the public of the closures related to this project.
- p.) Access to side roads and residences shall be maintained at all times. When work or traffic queues extend through an intersection additional traffic control shall be required at the intersection.
- q.) If congestion or delays exceed original estimates due to unforeseen events such as work zone collisions, higher than predicted traffic demand, or closures of extended duration, the Permittee shall utilize all appropriate resources to restore or minimize effects on public traffic. These resources shall contain (but are not limited to) the following contingencies:
 - 1) Calling for CHP or other emergency personnel in the event of a work-zone collision.
 - 2) Removal of the lane closure as soon as it is safe to do so to mitigate significant delay.
 - 3) Assigning personnel to work end-of-queue protection.

III. EROSION CONTROL

- 1. In accordance with Caltrans Standard Specifications Section 7-1-01G – “ Water Pollution”. The Permittee’s Contractor shall submit a “Water Pollution Control Program” (WPCP) to Vernon Callahan, Assistant Permit Engineer at Eureka prior to the start of work. Caltrans must approve the “Water Pollution Control Program” prior to the start of work within the Caltrans right of way. A template WPCP may be found at the Caltrans Website at the following location <http://www.dot.ca.gov/hq/construc/>.
- 2. All disturbed original ground shall be treated with a seed, fertilizer and mulch erosion control mixture approved by Vernon J. Callahan, Assistant Permit Engineer at Eureka. The Permittee may also be required to provide silt fences, straw wattles, or other siltation barriers as directed by Vernon J. Callahan, Assistant Permit Engineer at Eureka to prevent siltation in ditches and waterways.
- 3. The Permittee shall be responsible for obtaining all permits in accordance with section IV (2) below. This includes but is not limited to the requirements of the Regional Water Control Board (Region 1) which shall be contacted by the Permittee at the following location :

5550 Skylane Blvd. Suite A
Santa Rosa, CA 95403
Phone 707-576-2220
Fax 707-523-0135

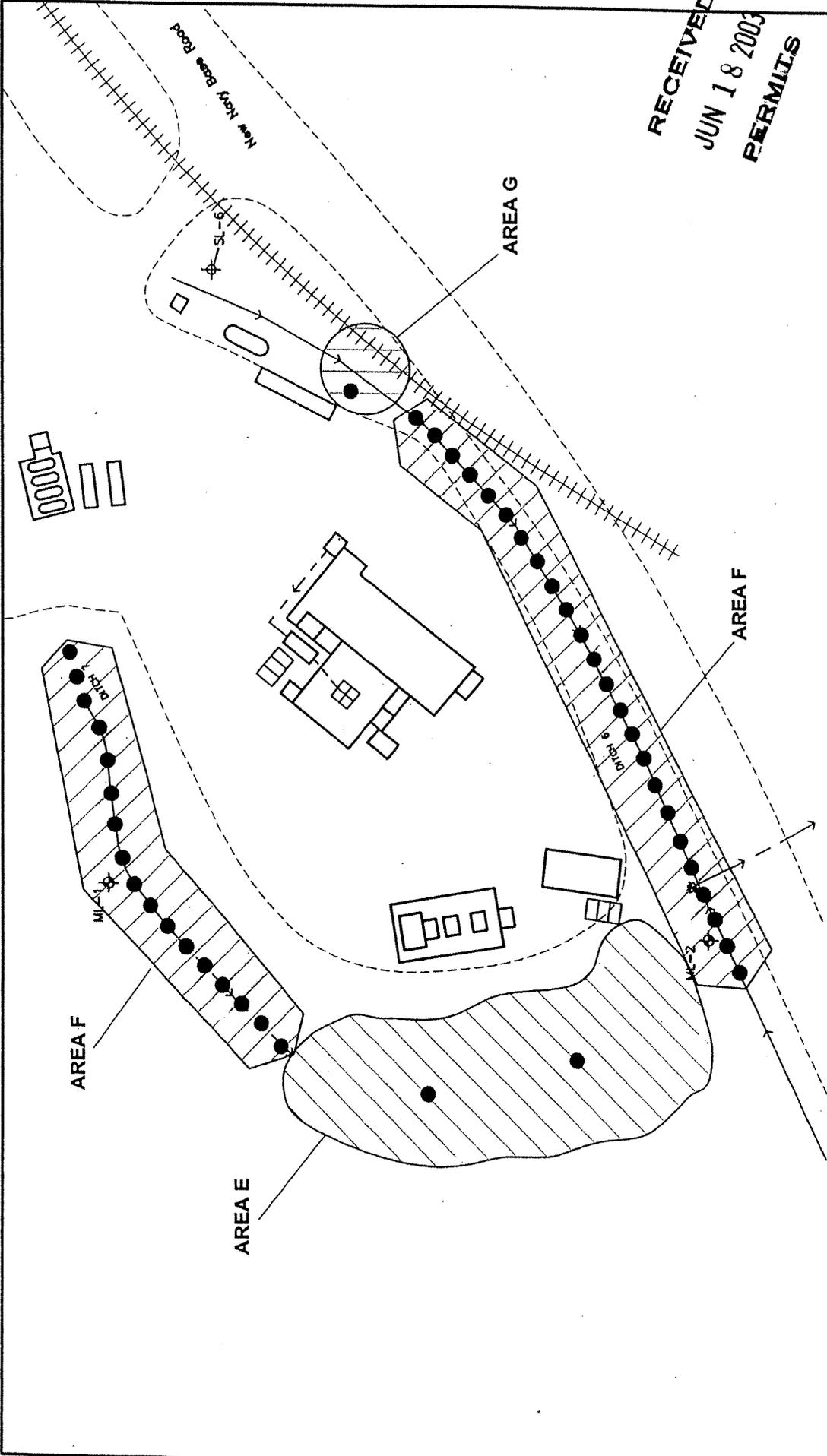
<http://www.swrcb.ca.gov/rwqcb1/index.html>

IV. GENERAL

- 1. The work area, including drainage ditches, shall be restored to a neat, clean condition and all debris shall be removed from the State Highway Right-of-way.
- 2. The Permittee’s attention is directed to Section 12, “**PERMITS FROM OTHER AGENCIES**” and Section 26 “**ARCHAEOLOGICAL/HISTORICAL:**” of the Encroachment Permit General Provisions. The State’s Representative for Archaeological Resource discoveries in the Caltrans right of way is Sara Atchley at (707) 441-3983.

3. **FEEES FOR THIS PERMIT ARE BASED ON ACTUAL REVIEW HOURS AND ACTUAL INSPECTION HOURS. AS OF THE ISSUE DATE OF THIS PERMIT AN ESTIMATED FEE DEPOSIT OF \$320.00 HAS BEEN COLLECTED. THE ACTUAL REVIEW FEE ACCRUED AT THIS TIME IS \$160.00 (2.0 HOURS TIMES THE STANDARD HOURLY RATE OF \$80.00 PER HOUR). THE ACTUAL INSPECTION FEE WILL BE CALCULATED UPON EXPIRATION OF THIS ENCROACHMENT PERMIT WORK AND WILL BE CALCULATED USING THE ACTUAL INSPECTION HOURS TIMES THE STANDARD HOURLY RATE IN EFFECT AT THAT TIME. THE ACTUAL REVIEW AND INSPECTION CHARGES WILL BE TOTALED AND ANY REMAINING BALANCE DUE THAT EXCEEDS THE INITIAL \$320.00 DEPOSIT WILL BE BILLED AND ANY UNUSED SURPLUS WILL BE REFUNDED.**
4. **UPON COMPLETION OF THE WORK, PLEASE FILL IN THE ATTACHED POST CARD AND MAIL AT ONCE.**

NOTE: IF THE WORK COVERED BY THIS PERMIT IS NOT COMPLETED BY THE COMPLETION DATE SHOWN, AN ENCROACHMENT PERMIT RIDER FEE WILL BE REQUIRED FOR A TIME EXTENSION. THE FEE WILL BE CHARGED AT THE CURRENT HOURLY RATE.



RECEIVED
JUN 18 2003
PERMITS

PROPOSED SAMPLING LOCATIONS

AT AREAS E, F AND G
Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Figure 2

Project No. 030229.4 By: C. Spill

Date: 5/28/03 Checked: *CS*

MFG, Inc.
consulting scientists and engineers

LEGEND

- PROPOSED APPROXIMATE SAMPLING LOCATION



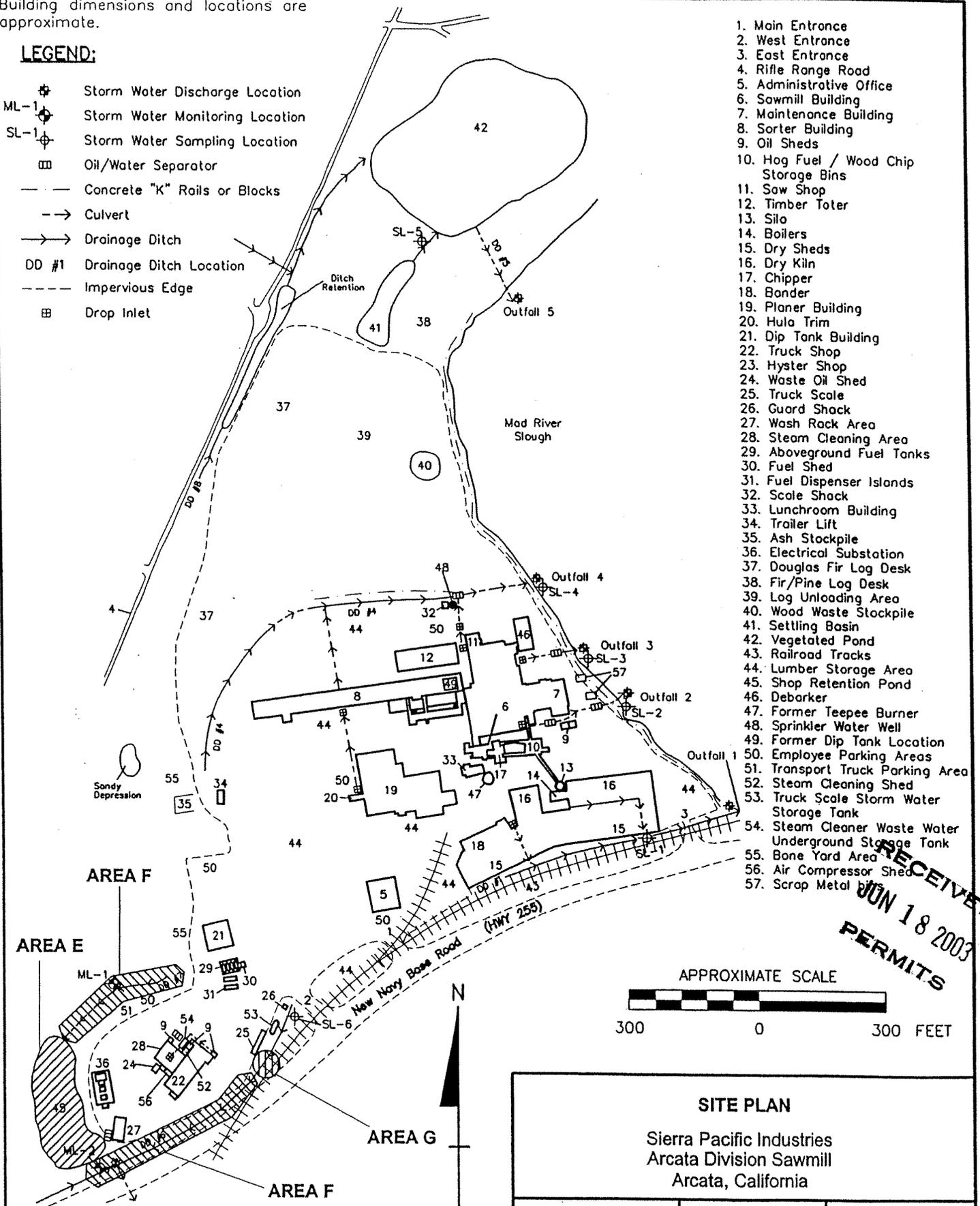
NOTE:
Site plan modified from Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California, dated January 30, 2003, prepared by EnviroNet.

Building dimensions and locations are approximate.

LEGEND:

- ⊕ Storm Water Discharge Location
- ML-1 ⊕ Storm Water Monitoring Location
- SL-1 ⊕ Storm Water Sampling Location
- ▣ Oil/Water Separator
- Concrete "K" Rails or Blocks
- - -> Culvert
- - -> Drainage Ditch
- DD #1 Drainage Ditch Location
- - - Impervious Edge
- ⊕ Drop Inlet

1. Main Entrance
2. West Entrance
3. East Entrance
4. Rifle Range Road
5. Administrative Office
6. Sawmill Building
7. Maintenance Building
8. Sorter Building
9. Oil Sheds
10. Hog Fuel / Wood Chip Storage Bins
11. Saw Shop
12. Timber Toter
13. Silo
14. Boilers
15. Dry Sheds
16. Dry Kiln
17. Chipper
18. Bonder
19. Planer Building
20. Hula Trim
21. Dip Tank Building
22. Truck Shop
23. Hyster Shop
24. Waste Oil Shed
25. Truck Scale
26. Guard Shack
27. Wash Rack Area
28. Steam Cleaning Area
29. Aboveground Fuel Tanks
30. Fuel Shed
31. Fuel Dispenser Islands
32. Scale Shack
33. Lunchroom Building
34. Trailer Lift
35. Ash Stockpile
36. Electrical Substation
37. Douglas Fir Log Desk
38. Fir/Pine Log Desk
39. Log Unloading Area
40. Wood Waste Stockpile
41. Settling Basin
42. Vegetated Pond
43. Railroad Tracks
44. Lumber Storage Area
45. Shop Retention Pond
46. Debarker
47. Former Teepee Burner
48. Sprinkler Water Well
49. Former Dip Tank Location
50. Employee Parking Areas
51. Transport Truck Parking Area
52. Steam Cleaning Shed
53. Truck Scale Storm Water Storage Tank
54. Steam Cleaner Waste Water Underground Storage Tank
55. Bone Yard Area
56. Air Compressor Shed
57. Scrap Metal bins



RECEIVED
JUN 18 2003
PERMITS

NOTE:
Site plan modified from Plate 2B in *Results of the Remedial Investigation for Sierra Pacific Industries - Arcata Division Sawmills, Arcata, California*, dated January 30, 2003, prepared by EnviroNet.

SITE PLAN		
Sierra Pacific Industries Arcata Division Sawmill Arcata, California		
Project No. 030229.4	By: C. Spill	Figure 1
Date: May 27, 2003	Checked: <i>CSP</i>	
MFG, Inc. consulting scientists and engineers		

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT GENERAL PROVISIONS
TR-0045 (REV. 6/2000)

1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.
2. **REVOCAION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.
4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.
6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."
8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.
9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).
12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 4' (1.21 meter) shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street.
14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. Day and night time lane closures shall comply with the Manuals of Traffic Controls, Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.
15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the Manual of Traffic Controls and Instructions to Flaggers Pamphlet.
16. **STORAGE OF EQUIPMENT AND MATERIALS:** Equipment and material storage in State right of way shall comply with Standard Specifications, Standard Plans, and Special Provisions. Whenever the permittee places an obstacle within 12' (3.63 m) of the traveled way, the permittee shall place temporary railing (Type K).
17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).
19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.
20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.
21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22 **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:

1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
5. As-Built plans shall contain the Permit Number, County, Route, Post Mile, and Kilometer Position on each sheet.
6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all

stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to rearrange a permitted installation upon request by the Department, for State construction, reconstruction, or maintenance work on the highway. The permittee at his sole expense, unless under a prior agreement, JUA, or a CCUA, shall comply with said request.

26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.

27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.

28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.

The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and

State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.
30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**
- A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:
1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
 2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
 3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
 4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
 5. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.
31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.
- Permittee understands and agrees that it will comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.
33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the

State. The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.
35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Transportation Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including, but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

Fax to: 1) Adolpho Gonzales @ 707-441-3914
 2) for Humboldt and Del Norte Counties; Vernon Callahan @ 707-445-6317
 3) for Mendocino and Lak Counties; Jerry Sheldon @ 707-463-4736



Today's Date _____ Time _____
 Permittee _____
 Phone # _____

District 1
 Lane Closure Request Form

Location & Date of Closure: _____ For the week of _____
 Reporting Week begins on Friday

	County	Route	PM	KP	Descriptive Location	Time
From						
To						

Day(s): Friday Saturday Sunday Monday Tuesday Wednesday Thursday

Direction: _____ # Existing Lanes: _____ # Lanes Closed: _____ Which Lane(s): _____

Types of Closure, Closure Characteristics (check all of the following that apply)

- One-way
- Detour info available
- Closure conforms with Established Traffic Control
- Complete Closure
- No Detour Available
- 24-hour/7-day closure
- Ramp Closures
- COZEEP/MAZEEP

Estimated Delay _____ Minutes

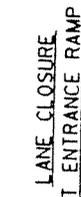
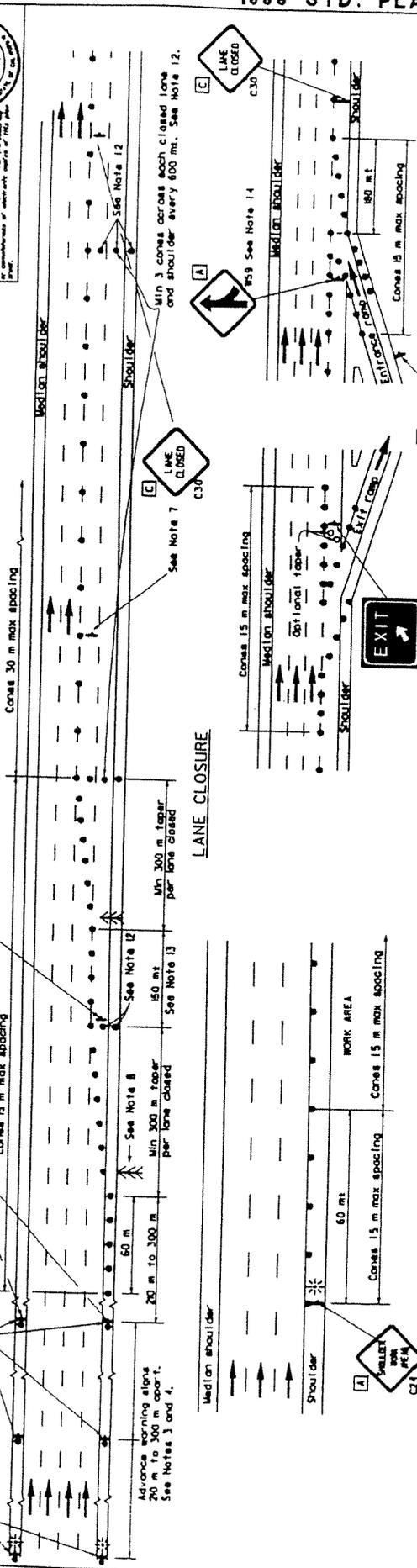
Reason for Restriction: _____

Encroachment Permit #: _____

Permittee
 Field Contact _____
 Cell _____
 Office _____
 Pager _____
 FAX _____

Details (Detour Information, CHP Break, Flaggers, Temporary Signals, Estimated re-open date, TMS Equipment, etc.)

COUNTY: _____ ROUTE: _____ BLOCKS: _____ FEET: _____ METERS: _____
 DATE: _____
 PROJECT: _____
 DRAWN BY: _____
 CHECKED BY: _____
 SCALE: _____
 PROJECT NO.: _____
 SHEET NO.: _____



SIGN PANEL SIZE (MIN)

A	229 mm x 129 mm
B	91 mm x 91 mm
C	762 mm x 762 mm

SHOULDER CLOSURE

- Median lane closures shall conform to the details for outside lane closures except that C20 and C21 signs shall be used.
- Not less than one person shall be assigned to the maintenance of traffic control devices during nighttime closures or daytime closures exceeding 18 m in length, including taper.
- Duplicate sign installations are not required at the shoulder if at least one-half of the available lanes remain open to traffic.
- In the median if the width of the median shoulder is less than 2.4 m and the outside lanes are to be closed.
- Advance warning sign installations shall be equipped with flags for daytime closures. Flashing beacons shall be placed at the locations indicated during night lane closure.
- A C3 "END CONSTRUCTION" or C11 "END ROAD WORK" sign, as applicable, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the C6 or C23 sign would follow within 600 m of a stationary C12, C23 or C11 sign, a C20 sign for the first advance warning sign.
- Place a C30 sign every 600 m throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be as follows:
 - A) Others may be either type 1 or type 11.
 - B) A minimum 150 m of sight distance shall be provided when the first flashing arrow sign is placed.
 - C) Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - D) As cones used for night lane closures shall be fitted with reflective sleeves as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, shall be used in lieu of cones for daytime closures only.

NOTES

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane across a traffic lane ends and every 600 m thereafter on the "Lane Closure" detail. Two types of cones may be used instead of the 3 cones. The cones may be placed on the shoulder cones or barricades on the alignment of the shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 150 m section of the lane closure shown along lane lines shall be used between the 300 m lane closure tapers when two or more adjacent traffic lanes are to be closed.
- Unless otherwise specified in the special provisions, the C61 and B59 signs shall be used as shown.
- Where specified in the special provisions, a "LANE REDUCTION AHEAD" sign shall be placed in place of the C20 "RIGHT LANE CLOSED AHEAD" sign.
- The W1 "LANE REDUCTION AHEAD" sign shown at this location is to be used when the W1 sign is used as advance warning as described in Note 16.

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

APPENDIX C

Boring Logs

ABBREVIATIONS / SYMBOLS USED IN BORING LOGS

GENERAL

PID - Photoionization Detector
OVM - Organic Vapor Meter
ppm - parts per million in air
sfc csg - surface casing
USCS - United Soil Classification System
NGVD - National Geodetic Vertical Datum of 1929
NAVD - North American Vertical Datum of 1988
NA - Not Analyzed

slt - slight or slightly
bgl - below ground level
DTW - depth to water

COLORS

v - very
lt - light
dk - dark
yel - yellow/yellowish
brn - brown/brownish
red-brn - reddish brown
a.a. - as above
(10YR 4/6) - Munsell notation
(hue value/chroma)

SAND GRAIN SIZE

VF - Very Fine
F - Fine
Med - Medium
Crs - Coarse

DENSITY / STIFFNESS

Med - Medium
V - Very

GEOLOGICAL CONTACTS

———— - Observed Contact
----- - Inferred Contact

GEOTECHNICAL

L.L. - Liquid Limit in percent
P.I. - Plasticity Index in percent
K - Vertical Hydraulic Conductivity
(permeability) in cm/sec

MOISTURE CONTENT

▼ - Observed top of saturated
soil interval

NOTE:

Field soil logging procedures were performed in accordance with ASTM D-2488-93 (Visual-Manual Procedure).

EXPLANATION FOR BORING LOGS

MFG, Inc.
consulting scientists and engineers



Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 8, 2003 Date Finished: July 8, 2003
0 1 2	SILT: v dk grey: (10YR 3/1); some clay, few organics and rootlets, moist. - black (10YR 2/1) - wet	ML	1 2 3 4	6 6 6 6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample RP-1-0.0-0.5' at 0.0 to 0.5 ft bgl. PID = 0 ppmv (0.5 - 1.0 feet bgl). Collected soil sample RP-1-0.5-1.0' at 0.5 to 1.0 ft bgl. PID = 2.2 ppmv (1.0 - 1.5 feet bgl). Collected soil sample RP-1-1.0-1.5' at 1.0 to 1.5 ft bgl. PID = 2.2 ppmv (1.5 - 2.0 feet bgl). Collected soil sample RP-1-1.5-2.0' at 1.5 to 2.0 ft bgl.	
2 3 4	CLAYEY SAND: black (10YR 2/1); F sand, some clay, few organics and rootlets.	SC	5	6	PID = 3.4 ppmv (2.0 - 2.5 feet bgl). Collected soil sample RP-1-2.0-2.5' at 2.0 to 2.5 ft bgl.	

- NOTES:
- PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 to 0.6 ppmv.
 - Boring augered to a depth of 4.0 ft bgl.
 - Collected groundwater sample RP-1-GW using a peristaltic pump and polyethylene tubing.
 - Boring was backfilled with neat cement.



Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

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 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 8, 2003 Date Finished: July 8, 2003
0	SAND WITH SILT: v dk greyish brn (10YR 3/2); F sand, few organics and rootlets, moist - wet	SP-SM	1	6	PID = 1.1 ppmv (0.0 - 0.5 feet bgl). Collected soil sample RP-1-0.0-0.5' at 0.0 to 0.5 ft bgl.	 Native Material
			2	6	PID = 1.1 ppmv (0.5 - 1.0 feet bgl). Collected soil sample RP-2-0.5-1.0' at 0.5 to 1.0 ft bgl.	
1			3	6	PID = 1.1 ppmv (1.0 - 1.5 feet bgl). Collected soil sample RP-2-1.0-1.5' at 1.0 to 1.5 ft bgl.	
			4	6	PID = 1.1 ppmv (1.5 - 2.0 feet bgl). Collected soil sample RP-2-1.5-2.0' at 1.5 to 2.0 ft bgl.	 Neat Cement
2			5	6	PID = 1.1 ppmv (2.0 - 2.5 feet bgl). Collected soil sample RP-2-2.0-2.5' at 2.0 to 2.5 ft bgl.	
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0-0.6 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample RP-2-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with neat cement.					
4						



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Arcata, California

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 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 22, 2003 Date Finished: July 22, 2003
0	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-3-0.0-0.5' at 0.0 to 0.5 ft bgl.	
1	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM				
2	SAND: dk grey (10YR 4/1); F sand.	SP				
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample D6-3-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with bentonite chips and 3/4-inch baserock.					
4						

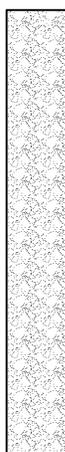


Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc.
 Drilling Method : Stainless steel hand auger
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

Logged By : Julie Mills
 Reviewed By : Christopher Spill, R.G.

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 22, 2003 Date Finished: July 22, 2003
0	SILT: v dk grey (10YR 3/1); some organics, moist.	ML	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-5-0.0-0.5' at 0.0 to 0.5 ft bgl.	
	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, moist.	SM				
1	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML				
	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM				
2	SAND: dk grey (10YR 4/1); F sand.	SP				
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample D6-5-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with bentonite chips and 3/4-inch baserock.					
4						



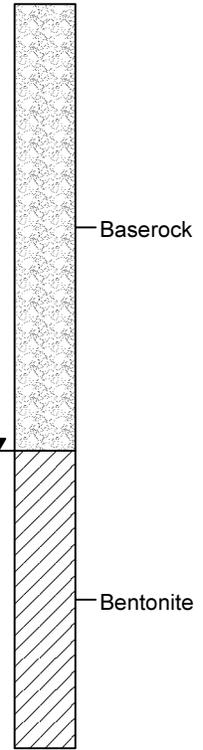
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 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Date Started: July 22, 2003
Date Finished: July 22, 2003

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS
0	SILT: v dk grey (10YR 3/1); some organics, moist.	ML	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-6-0.0-0.5' at 0.0 to 0.5 ft bgl.
	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, moist.	SM			
1	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML			
	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM			
2	SAND: dk grey (10YR 4/1); F sand.	SP			
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample D6-6-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with bentonite chips and 3/4-inch baserock.				
4					





Sierra Pacific Industries
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Arcata, California

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 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Date Started: July 22, 2003
Date Finished: July 22, 2003

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS
0	SILT: v dk grey (10YR 3/1); some organics, moist.	ML	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-7-0.0-0.5' at 0.0 to 0.5 ft bgl.
	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, moist.	SM			
1	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML			
	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM			
2	SAND: dk grey (10YR 4/1); F sand.	SP			
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample D6-7-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with bentonite chips and 3/4-inch baserock.				
4					





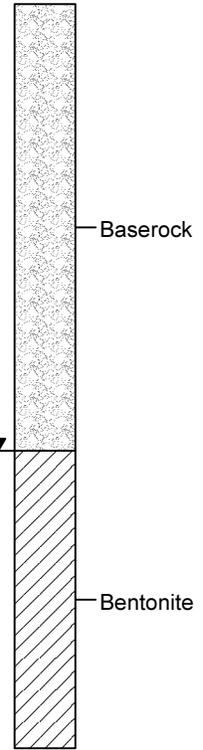
Sierra Pacific Industries
Arcata Division Sawmill
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 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Date Started: July 23, 2003
Date Finished: July 23, 2003

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS
0	SILT: v dk grey (10YR 3/1); some organics, moist.	ML	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-9-0.0-0.5' at 0.0 to 0.5 ft bgl.
	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, moist.	SM			
1	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML			
	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM			
2	SAND: dk grey (10YR 4/1); F sand.	SP			
3	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. 2. Boring augered to a depth of 2.5 ft bgl. 3. Collected groundwater sample D6-9-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with bentonite chips and 3/4-inch baserock.				
4					





Sierra Pacific Industries
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Date Finished: July 23, 2003

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS
0	SILT: v dk grey (10YR 3/1); some organics, moist.	ML	1	6	PID = 0.7 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-12-0.0-0.5' at 0.0 to 0.5 ft bgl.
	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, moist.	SM			
1	SANDY SILT: v dk grey (10YR 3/1); F sand, some organics, moist.	ML			
	SILTY SAND: dk grey (10YR 4/1); F sand, some silt, wet.	SM			
2	SAND: dk grey (10YR 4/1); F sand.	SP			



NOTES:

1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv.
2. Boring augered to a depth of 2.5 ft bgl.
3. Collected groundwater sample D6-12-GW using a peristaltic pump and polyethylene tubing.
4. Boring was backfilled with bentonite chips and 3/4-inch baserock.



Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 23, 2003 Date Finished: July 23, 2003
0	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, few rootlets, wet.	SM	1	6	PID = 1.1 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-15-0.0-0.5' at 0.0 to 0.5 ft bgl.	
1						
2						
3						
4						

NOTES:

1. PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv.
2. Boring augered to a depth of 1.5 ft bgl.
3. Collected groundwater sample D6-15-GW using a peristaltic pump and polyethylene tubing.
4. Boring was backfilled with bentonite chips.



Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 24, 2003 Date Finished: July 24, 2003
0	SILTY SAND: v dk grey (10YR 3/1); F sand, some silt, few rootlets, wet.	SM	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D6-21-0.0-0.5' at 0.0 to 0.5 ft bgl.	 <p>Bentonite</p>
2	<p>NOTES:</p> <ol style="list-style-type: none"> PID calibrated using 96 ppmv isobutylene. Background ambient air = 0.0 ppmv. Boring augered to a depth of 1.5 ft bgl. Collected groundwater sample D6-21-GW using a peristaltic pump and polyethylene tubing. Boring was backfilled with bentonite chips. 					
4						



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LOG OF BORING D7-6

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 9, 2003 Date Finished: July 9, 2003
0	SAND: v dk grey (10YR 3/1); some rootlets, wet	SP	1	6	PID = 0 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-6-0.0-0.5' at 0.0 to 0.5 ft bgl.	
1						
2	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv. 2. Boring augered to a depth of 2.0 ft bgl. 3. Collected groundwater sample D7-6-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with native material.					
3						
4						



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LOG OF BORING D7-7

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 9, 2003 Date Finished: July 9, 2003
0	SAND: v dk grey (10YR 3/1); F sand, few rootlets, wet	SP	1	6	PID = 0.4 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-7-0.0-0.5' at 0.0 to 0.5 ft bgl.	
1						
2						
3						
4						

NOTES:

1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv.
2. Boring augered to a depth of 2.0 ft bgl.
3. Collected groundwater sample D7-7-GW using a peristaltic pump and polyethylene tubing.
4. Boring was backfilled with native material.



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LOG OF BORING D7-8

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 9, 2003 Date Finished: July 9, 2003
0	SAND: v dk grey (10YR 3/1); F sand, few rootlets, wet	SP	1	6	PID =1.1 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-8-0.0-0.5' at 0.0 to 0.5 ft bgl.	
2	<p>NOTES:</p> <ol style="list-style-type: none"> 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv. 2. Boring augered to a depth of 2.0 ft bgl. 3. Collected groundwater sample D7-8-GW using a peristaltic pump and polyethylene tubing. 4. Boring was backfilled with native material. 					
3						
4						



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LOG OF BORING D7-15

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 10, 2003 Date Finished: July 10, 2003
0	SAND: v dk grey (10YR 3/1); F sand, few rootlets, wet.	SP	1	6	PID = 1.5 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-15-0.0-0.5' at 0.0 to 0.5 ft bgl.	 <p>Slough</p>
2	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv. 2. Boring augered to a depth of 2.0 ft bgl. 3. Collected groundwater sample D7-15-GW using a peristaltic pump and polyethylene tubing.					
3						
4						



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LOG OF BORING D7-16

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 10, 2003 Date Finished: July 10, 2003
0	SAND: v dk grey (10YR 3/1); F sand, few rootlets, wet	SP	1	6	PID = 3.5 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-16-0.0-0.5' at 0.0 to 0.5 ft bgl.	 <p>Slough</p>
2	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv. 2. Boring augered to a depth of 2.0 ft bgl. 3. Collected groundwater sample D7-16-GW using a peristaltic pump and polyethylene tubing.					
3						
4						



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LOG OF BORING D7-17

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 10, 2003 Date Finished: July 10, 2003
0	SILT: v dk grey (10YR 3/1); some F sand, few rootlets, wet	ML	1	6	PID = 4.5 ppmv (0.0 - 0.5 feet bgl). Collected soil sample D7-17-0.0-0.5' at 0.0 to 0.5 ft bgl.	 <p>Slough</p>
2	NOTES: 1. PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0 ppmv. 2. Boring augered to a depth of 2.0 ft bgl. 3. Collected groundwater sample D7-17-GW using a peristaltic pump and polyethylene tubing.					
3						
4						



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LOG OF BORING SDP-1

(Page 1 of 1)

Sierra Pacific Industries
Arcata Division Sawmill
Arcata, California

Drilling Agency : MFG, Inc. Logged By : Julie Mills
 Drilling Method : Stainless steel hand auger Reviewed By : Christopher Spill, R.G.
 Sampler Type : Stainless Steel Drive Sampler and Slide Hammer
 Sampling Method : Brass Liners
 Ground Elevation : Not Surveyed

MFG Project No. 030229.4

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery (inches)	REMARKS	Date Started: July 9, 2003 Date Finished: July 9, 2003
0	SILT: v dk greyish brn (10YR 3/2); mottled with dk greyish brn (10YR 4/2), some clay, trace F sand, dry.	ML	1	6	PID = 0.4 ppmv (0.0 - 0.5 feet bgl). Collected soil sample SDP-1-0.0-0.5' at 0.0 to 0.5 ft bgl.	Native Material
1	- black (10YR 2/1); moist.					
2	SAND: dk grey (10YR 4/1); Med sand, wet.	SP	2	6	PID = 0.4 ppmv (2.0 - 2.5 feet bgl). Collected soil sample SDP-1-2.0-2.5' at 2.0 to 2.5 ft bgl.	Neat Cement
3						
4						

- NOTES:**
- PID calibrated using 96 ppmv isobutylene. Background ambient air=0.0-0.6 ppmv.
 - Boring augered to a depth of 4.0 ft bgl.
 - Collected groundwater sample SDP-1-GW using a peristaltic pump and polyethylene tubing.
 - Boring was backfilled with neat cement.

APPENDIX D

Laboratory Reports and Chain-of-Custody Records for Soil Samples



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

26 July 2003

Ed Conti
MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
RE: SPI-Arcata/Task #4

Enclosed are the results of analyses for samples received by the laboratory on 07/10/03 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager

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Alpha Analytical Laboratories Inc.

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
--	--	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RP-1-0.0-0.5	A307292-01	Soil	07/08/03 12:16	07/10/03 17:45
RP-1-0.5-1.0	A307292-02	Soil	07/08/03 12:22	07/10/03 17:45
RP-1-1.0-1.5	A307292-03	Soil	07/08/03 12:27	07/10/03 17:45
RP-1-1.5-2.0	A307292-04	Soil	07/08/03 12:31	07/10/03 17:45
RP-1-2.0-2.5	A307292-05	Soil	07/08/03 12:37	07/10/03 17:45
RP-2-0.0-0.5	A307292-06	Soil	07/08/03 15:23	07/10/03 17:45
RP-2-0.5-1.0	A307292-07	Soil	07/08/03 15:26	07/10/03 17:45
RP-2-1.0-1.5	A307292-08	Soil	07/08/03 15:31	07/10/03 17:45
RP-2-1.5-2.0	A307292-09	Soil	07/08/03 15:36	07/10/03 17:45
RP-2-2.0-2.5	A307292-10	Soil	07/08/03 15:41	07/10/03 17:45
D7-1-0.0-0.5	A307292-11	Soil	07/09/03 10:20	07/10/03 17:45
D7-2-0.0-0.5	A307292-12	Soil	07/09/03 10:52	07/10/03 17:45
D7-3-0.0-0.5	A307292-13	Soil	07/09/03 11:40	07/10/03 17:45
D7-4-0.0-0.5	A307292-14	Soil	07/09/03 12:30	07/10/03 17:45
D7-5-0.0-0.5	A307292-15	Soil	07/09/03 00:00	07/10/03 17:45
D7-6-0.0-0.5	A307292-16	Soil	07/09/03 15:37	07/10/03 17:45
D7-7-0.0-0.5	A307292-17	Soil	07/09/03 16:25	07/10/03 17:45
D7-8-0.0-0.5	A307292-18	Soil	07/09/03 17:20	07/10/03 17:45
D7-9-0.0-0.5	A307292-19	Soil	07/10/03 08:40	07/10/03 17:45
D7-10-0.0-0.5	A307292-20	Soil	07/10/03 09:10	07/10/03 17:45
D7-11-0.0-0.5	A307292-21	Soil	07/10/03 09:36	07/10/03 17:45
D7-12-0.0-0.5	A307292-22	Soil	07/10/03 10:00	07/10/03 17:45
D7-13-0.0-0.5	A307292-23	Soil	07/10/03 10:15	07/10/03 17:45
D7-14-0.0-0.5	A307292-24	Soil	07/10/03 10:45	07/10/03 17:45
D7-15-0.0-0.5	A307292-25	Soil	07/10/03 11:05	07/10/03 17:45
D7-16-0.0-0.5	A307292-26	Soil	07/10/03 11:25	07/10/03 17:45

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D7-17-0.0-0.5	A307292-27	Soil	07/10/03 11:45	07/10/03 17:45
SDP-1-0.0-05	A307292-28	Soil	07/09/03 09:12	07/10/03 17:45
SDP-1-2.0-2.5	A307292-29	Soil	07/09/03 09:25	07/10/03 17:45

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Metals by EPA 6000/7000 Series Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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RP-1-0.0-0.5 (A307292-01) Soil Sampled: 07/08/03 12:16 Received: 07/10/03 17:45

Cadmium	1.3	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	48	5.0	"	"	"	"	"	"	
Nickel	58	10	"	"	"	"	"	"	
Lead	17	5.0	"	"	"	"	"	"	
Zinc	150	10	"	"	"	"	"	"	

RP-1-0.5-1.0 (A307292-02) Soil Sampled: 07/08/03 12:22 Received: 07/10/03 17:45

Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	110	5.0	"	"	"	"	"	"	
Nickel	210	10	"	"	"	"	"	"	
Lead	17	5.0	"	"	"	"	"	"	
Zinc	140	10	"	"	"	"	"	"	

RP-1-1.0-1.5 (A307292-03) Soil Sampled: 07/08/03 12:27 Received: 07/10/03 17:45

Cadmium	1.2	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	49	5.0	"	"	"	"	"	"	
Nickel	86	10	"	"	"	"	"	"	
Lead	22	5.0	"	"	"	"	"	"	
Zinc	140	10	"	"	"	"	"	"	

RP-1-1.5-2.0 (A307292-04) Soil Sampled: 07/08/03 12:31 Received: 07/10/03 17:45

Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	50	5.0	"	"	"	"	"	"	
Nickel	72	10	"	"	"	"	"	"	
Lead	27	5.0	"	"	"	"	"	"	
Zinc	100	10	"	"	"	"	"	"	

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
--	--	-----------------------------

Metals by EPA 6000/7000 Series Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-1-2.0-2.5 (A307292-05) Soil Sampled: 07/08/03 12:37 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	43	5.0	"	"	"	"	"	"	
Nickel	68	10	"	"	"	"	"	"	
Lead	14	5.0	"	"	"	"	"	"	
Zinc	63	10	"	"	"	"	"	"	
RP-2-0.0-0.5 (A307292-06) Soil Sampled: 07/08/03 15:23 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/16/03	EPA 6010	
Chromium	ND	5.0	"	"	"	"	"	"	
Nickel	ND	10	"	"	"	"	"	"	
Lead	28	5.0	"	"	"	"	"	"	
Zinc	61	10	"	"	"	"	"	"	
RP-2-0.5-1.0 (A307292-07) Soil Sampled: 07/08/03 15:26 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/18/03	EPA 6010	
Chromium	25	5.0	"	"	"	"	"	"	
Nickel	22	10	"	"	"	"	"	"	
Lead	8.8	5.0	"	"	"	"	"	"	
Zinc	55	10	"	"	"	"	"	"	
RP-2-1.0-1.5 (A307292-08) Soil Sampled: 07/08/03 15:31 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/18/03	EPA 6010	
Chromium	18	5.0	"	"	"	"	"	"	
Nickel	18	10	"	"	"	"	"	"	
Lead	12	5.0	"	"	"	"	"	"	
Zinc	53	10	"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-2-1.5-2.0 (A307292-09) Soil Sampled: 07/08/03 15:36 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/18/03	EPA 6010	
Chromium	19	5.0	"	"	"	"	"	"	
Nickel	16	10	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Zinc	18	10	"	"	"	"	"	"	
RP-2-2.0-2.5 (A307292-10) Soil Sampled: 07/08/03 15:41 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/18/03	EPA 6010	
Chromium	18	5.0	"	"	"	"	"	"	
Nickel	16	10	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Zinc	19	10	"	"	"	"	"	"	
D7-1-0.0-0.5 (A307292-11) Soil Sampled: 07/09/03 10:20 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31004	07/15/03	07/18/03	EPA 6010	
Chromium	18	5.0	"	"	"	"	"	"	
Nickel	23	10	"	"	"	"	"	"	
Lead	12	5.0	"	"	"	"	"	"	
Zinc	170	10	"	"	"	"	"	"	
D7-2-0.0-0.5 (A307292-12) Soil Sampled: 07/09/03 10:52 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	44	5.0	"	"	"	"	"	"	
Nickel	42	10	"	"	"	"	"	"	
Lead	18	5.0	"	"	"	"	"	"	
Zinc	140	10	"	"	"	"	"	"	

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-3-0.0-0.5 (A307292-13) Soil Sampled: 07/09/03 11:40 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	16	5.0	"	"	"	"	"	"	
Nickel	21	10	"	"	"	"	"	"	
Lead	13	5.0	"	"	"	"	"	"	
Zinc	60	10	"	"	"	"	"	"	
D7-4-0.0-0.5 (A307292-14) Soil Sampled: 07/09/03 12:30 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	13	5.0	"	"	"	"	"	"	
Nickel	18	10	"	"	"	"	"	"	
Lead	14	5.0	"	"	"	"	"	"	
Zinc	150	10	"	"	"	"	"	"	
D7-5-0.0-0.5 (A307292-15) Soil Sampled: 07/09/03 00:00 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	11	5.0	"	"	"	"	"	"	
Nickel	11	10	"	"	"	"	"	"	
Lead	12	5.0	"	"	"	"	"	"	
Zinc	39	10	"	"	"	"	"	"	
D7-6-0.0-0.5 (A307292-16) Soil Sampled: 07/09/03 15:37 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	44	5.0	"	"	"	"	"	"	
Nickel	35	10	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Zinc	23	10	"	"	"	"	"	"	

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MFG, Inc
180 Howard St. Suite 200
San Francisco CA, 94105-2941

Project: SPI-Arcata/Task #4
Project Number: 030229.4
Project Manager: Ed Conti

Reported:
07/26/03 09:17

Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-7-0.0-0.5 (A307292-17) Soil Sampled: 07/09/03 16:25 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	46	5.0	"	"	"	"	"	"	
Nickel	35	10	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Zinc	27	10	"	"	"	"	"	"	
D7-8-0.0-0.5 (A307292-18) Soil Sampled: 07/09/03 17:20 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/22/03	EPA 6010	
Chromium	36	5.0	"	"	"	"	"	"	
Nickel	29	10	"	"	"	"	"	"	
Lead	5.8	5.0	"	"	"	"	"	"	
Zinc	34	10	"	"	"	"	"	"	
D7-9-0.0-0.5 (A307292-19) Soil Sampled: 07/10/03 08:40 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	40	5.0	"	"	"	"	"	"	
Nickel	41	10	"	"	"	"	"	"	
Lead	20	5.0	"	"	"	"	"	"	
Zinc	140	10	"	"	"	"	"	"	
D7-10-0.0-0.5 (A307292-20) Soil Sampled: 07/10/03 09:10 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	20	5.0	"	"	"	"	"	"	
Nickel	46	10	"	"	"	"	"	"	
Lead	23	5.0	"	"	"	"	"	"	
Zinc	370	10	"	"	"	"	"	"	

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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180 Howard St. Suite 200
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Project: SPI-Arcata/Task #4
Project Number: 030229.4
Project Manager: Ed Conti

Reported:
07/26/03 09:17

Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-11-0.0-0.5 (A307292-21) Soil Sampled: 07/10/03 09:36 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	38	5.0	"	"	"	"	"	"	
Nickel	38	10	"	"	"	"	"	"	
Lead	35	5.0	"	"	"	"	"	"	
Zinc	120	10	"	"	"	"	"	"	
D7-12-0.0-0.5 (A307292-22) Soil Sampled: 07/10/03 10:00 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	44	5.0	"	"	"	"	"	"	
Nickel	38	10	"	"	"	"	"	"	
Lead	13	5.0	"	"	"	"	"	"	
Zinc	75	10	"	"	"	"	"	"	
D7-13-0.0-0.5 (A307292-23) Soil Sampled: 07/10/03 10:15 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	10	5.0	"	"	"	"	"	"	
Nickel	17	10	"	"	"	"	"	"	
Lead	6.2	5.0	"	"	"	"	"	"	
Zinc	70	10	"	"	"	"	"	"	
D7-14-0.0-0.5 (A307292-24) Soil Sampled: 07/10/03 10:45 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	16	5.0	"	"	"	"	"	"	
Nickel	24	10	"	"	"	"	"	"	
Lead	7.6	5.0	"	"	"	"	"	"	
Zinc	110	10	"	"	"	"	"	"	

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Metals by EPA 6000/7000 Series Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-15-0.0-0.5 (A307292-25) Soil Sampled: 07/10/03 11:05 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	27	5.0	"	"	"	"	"	"	
Nickel	36	10	"	"	"	"	"	"	
Lead	12	5.0	"	"	"	"	"	"	
Zinc	100	10	"	"	"	"	"	"	
D7-16-0.0-0.5 (A307292-26) Soil Sampled: 07/10/03 11:25 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	32	5.0	"	"	"	"	"	"	
Nickel	39	10	"	"	"	"	"	"	
Lead	25	5.0	"	"	"	"	"	"	
Zinc	210	10	"	"	"	"	"	"	
D7-17-0.0-0.5 (A307292-27) Soil Sampled: 07/10/03 11:45 Received: 07/10/03 17:45									
Cadmium	5.1	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	31	5.0	"	"	"	"	"	"	
Nickel	35	10	"	"	"	"	"	"	
Lead	27	5.0	"	"	"	"	"	"	
Zinc	460	10	"	"	"	"	"	"	
SDP-1-0.0-0.5 (A307292-28) Soil Sampled: 07/09/03 09:12 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	44	5.0	"	"	"	"	"	"	
Nickel	61	10	"	"	"	"	"	"	
Lead	31	5.0	"	"	"	"	"	"	
Zinc	160	10	"	"	"	"	"	"	

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SDP-1-2.0-2.5 (A307292-29) Soil Sampled: 07/09/03 09:25 Received: 07/10/03 17:45									
Cadmium	ND	1.0	mg/kg	1	AG31502	07/15/03	07/23/03	EPA 6010	
Chromium	21	5.0	"	"	"	"	"	"	
Nickel	49	10	"	"	"	"	"	"	
Lead	ND	5.0	"	"	"	"	"	"	
Zinc	37	10	"	"	"	"	"	"	

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Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-1-0.0-0.5 (A307292-01) Soil Sampled: 07/08/03 12:16 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32117	07/16/03	07/18/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		33.1 %	23-140		"	"	"	"	
RP-1-0.5-1.0 (A307292-02) Soil Sampled: 07/08/03 12:22 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32117	07/16/03	07/18/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		49.2 %	23-140		"	"	"	"	
RP-1-1.0-1.5 (A307292-03) Soil Sampled: 07/08/03 12:27 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32117	07/16/03	07/18/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		29.0 %	23-140		"	"	"	"	
RP-1-1.5-2.0 (A307292-04) Soil Sampled: 07/08/03 12:31 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32117	07/16/03	07/18/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		44.4 %	23-140		"	"	"	"	

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Chlorinated Phenols by Canadian Pulp Method

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-1-2.0-2.5 (A307292-05) Soil Sampled: 07/08/03 12:37 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		35.5 %		23-140	"	"	"	"	
RP-2-0.0-0.5 (A307292-06) Soil Sampled: 07/08/03 15:23 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		48.4 %		23-140	"	"	"	"	
RP-2-0.5-1.0 (A307292-07) Soil Sampled: 07/08/03 15:26 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		76.6 %		23-140	"	"	"	"	
RP-2-1.0-1.5 (A307292-08) Soil Sampled: 07/08/03 15:31 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		78.2 %		23-140	"	"	"	"	

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San Francisco CA, 94105-2941

Project: SPI-Arcata/Task #4
Project Number: 030229.4
Project Manager: Ed Conti

Reported:
07/26/03 09:17

Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-2-1.5-2.0 (A307292-09) Soil Sampled: 07/08/03 15:36 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		71.0 %	23-140		"	"	"	"	
RP-2-2.0-2.5 (A307292-10) Soil Sampled: 07/08/03 15:41 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		82.3 %	23-140		"	"	"	"	
D7-1-0.0-0.5 (A307292-11) Soil Sampled: 07/09/03 10:20 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		79.0 %	23-140		"	"	"	"	
D7-2-0.0-0.5 (A307292-12) Soil Sampled: 07/09/03 10:52 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		68.5 %	23-140		"	"	"	"	

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-3-0.0-0.5 (A307292-13) Soil Sampled: 07/09/03 11:40 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		66.1 %	23-140		"	"	"	"	
D7-4-0.0-0.5 (A307292-14) Soil Sampled: 07/09/03 12:30 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		65.3 %	23-140		"	"	"	"	
D7-5-0.0-0.5 (A307292-15) Soil Sampled: 07/09/03 00:00 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		56.5 %	23-140		"	"	"	"	
D7-6-0.0-0.5 (A307292-16) Soil Sampled: 07/09/03 15:37 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32119	07/17/03	07/19/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		85.5 %	23-140		"	"	"	"	

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Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-7-0.0-0.5 (A307292-17) Soil Sampled: 07/09/03 16:25 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		67.7 %	23-140		"	"	"	"	
D7-8-0.0-0.5 (A307292-18) Soil Sampled: 07/09/03 17:20 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		86.3 %	23-140		"	"	"	"	
D7-9-0.0-0.5 (A307292-19) Soil Sampled: 07/10/03 08:40 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		82.3 %	23-140		"	"	"	"	
D7-10-0.0-0.5 (A307292-20) Soil Sampled: 07/10/03 09:10 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		44.4 %	23-140		"	"	"	"	

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Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-11-0.0-0.5 (A307292-21) Soil Sampled: 07/10/03 09:36 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		41.1 %	23-140		"	"	"	"	
D7-12-0.0-0.5 (A307292-22) Soil Sampled: 07/10/03 10:00 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		67.7 %	23-140		"	"	"	"	
D7-13-0.0-0.5 (A307292-23) Soil Sampled: 07/10/03 10:15 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		65.3 %	23-140		"	"	"	"	
D7-14-0.0-0.5 (A307292-24) Soil Sampled: 07/10/03 10:45 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		60.5 %	23-140		"	"	"	"	

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Chlorinated Phenols by Canadian Pulp Method
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-15-0.0-0.5 (A307292-25) Soil Sampled: 07/10/03 11:05 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32121	07/18/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		72.6 %	23-140		"	"	"	"	
D7-16-0.0-0.5 (A307292-26) Soil Sampled: 07/10/03 11:25 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32307	07/20/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		75.8 %	23-140		"	"	"	"	
D7-17-0.0-0.5 (A307292-27) Soil Sampled: 07/10/03 11:45 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32307	07/20/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		53.2 %	23-140		"	"	"	"	
SDP-1-0.0-05 (A307292-28) Soil Sampled: 07/09/03 09:12 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32307	07/20/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		69.4 %	23-140		"	"	"	"	

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Chlorinated Phenols by Canadian Pulp Method

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SDP-1-2.0-2.5 (A307292-29) Soil Sampled: 07/09/03 09:25 Received: 07/10/03 17:45									
2,4,6-Trichlorophenol	ND	1.0	mg/kg	1	AG32307	07/20/03	07/22/03	EnvCan	
2,3,5,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
2,3,4,5-Tetrachlorophenol	ND	1.0	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Tribromophenol</i>		65.3 %		23-140	"	"	"	"	

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Conventional Chemistry Parameters by APHA/EPA Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-1-0.0-0.5 (A307292-01) Soil Sampled: 07/08/03 12:16 Received: 07/10/03 17:45									
Oil & Grease (HEM)	12000	50	mg/kg	1	AG31708	07/15/03	07/18/03	EPA 9071B	
pH	5.1	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-1-0.5-1.0 (A307292-02) Soil Sampled: 07/08/03 12:22 Received: 07/10/03 17:45									
Oil & Grease (HEM)	16000	50	mg/kg	1	AG31708	07/15/03	07/18/03	EPA 9071B	
pH	5.2	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-1-1.0-1.5 (A307292-03) Soil Sampled: 07/08/03 12:27 Received: 07/10/03 17:45									
Oil & Grease (HEM)	40000	50	mg/kg	1	AG31708	07/15/03	07/18/03	EPA 9071B	
pH	5.1	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-1-1.5-2.0 (A307292-04) Soil Sampled: 07/08/03 12:31 Received: 07/10/03 17:45									
Oil & Grease (HEM)	11000	50	mg/kg	1	AG31708	07/15/03	07/18/03	EPA 9071B	
pH	5.1	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-1-2.0-2.5 (A307292-05) Soil Sampled: 07/08/03 12:37 Received: 07/10/03 17:45									
Oil & Grease (HEM)	6200	50	mg/kg	1	AG31708	07/15/03	07/18/03	EPA 9071B	
pH	5.8	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-2-0.0-0.5 (A307292-06) Soil Sampled: 07/08/03 15:23 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1400	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.2	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-2-0.5-1.0 (A307292-07) Soil Sampled: 07/08/03 15:26 Received: 07/10/03 17:45									
Oil & Grease (HEM)	120	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.7	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	

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Conventional Chemistry Parameters by APHA/EPA Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RP-2-1.0-1.5 (A307292-08) Soil Sampled: 07/08/03 15:31 Received: 07/10/03 17:45									
Oil & Grease (HEM)	300	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.1	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-2-1.5-2.0 (A307292-09) Soil Sampled: 07/08/03 15:36 Received: 07/10/03 17:45									
Oil & Grease (HEM)	260	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
RP-2-2.0-2.5 (A307292-10) Soil Sampled: 07/08/03 15:41 Received: 07/10/03 17:45									
Oil & Grease (HEM)	260	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.8	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
D7-1-0.0-0.5 (A307292-11) Soil Sampled: 07/09/03 10:20 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1900	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.3	1.0	pH Units	"	AG31806	07/17/03	07/17/03	EPA 9045B	
D7-2-0.0-0.5 (A307292-12) Soil Sampled: 07/09/03 10:52 Received: 07/10/03 17:45									
Oil & Grease (HEM)	3100	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.1	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-3-0.0-0.5 (A307292-13) Soil Sampled: 07/09/03 11:40 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1900	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.2	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-4-0.0-0.5 (A307292-14) Soil Sampled: 07/09/03 12:30 Received: 07/10/03 17:45									
Oil & Grease (HEM)	4100	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	6.3	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	

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MFG, Inc.



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
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Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-5-0.0-0.5 (A307292-15) Soil Sampled: 07/09/03 00:00 Received: 07/10/03 17:45									
Oil & Grease (HEM)	8800	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.1	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-6-0.0-0.5 (A307292-16) Soil Sampled: 07/09/03 15:37 Received: 07/10/03 17:45									
Oil & Grease (HEM)	160	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.2	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-7-0.0-0.5 (A307292-17) Soil Sampled: 07/09/03 16:25 Received: 07/10/03 17:45									
Oil & Grease (HEM)	130	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.4	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-8-0.0-0.5 (A307292-18) Soil Sampled: 07/09/03 17:20 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1800	50	mg/kg	1	AG31708	07/16/03	07/18/03	EPA 9071B	
pH	5.7	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-9-0.0-0.5 (A307292-19) Soil Sampled: 07/10/03 08:40 Received: 07/10/03 17:45									
Oil & Grease (HEM)	2300	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-10-0.0-0.5 (A307292-20) Soil Sampled: 07/10/03 09:10 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1400	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-11-0.0-0.5 (A307292-21) Soil Sampled: 07/10/03 09:36 Received: 07/10/03 17:45									
Oil & Grease (HEM)	17000	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	5.9	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	

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Conventional Chemistry Parameters by APHA/EPA Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D7-12-0.0-0.5 (A307292-22) Soil Sampled: 07/10/03 10:00 Received: 07/10/03 17:45									
Oil & Grease (HEM)	1100	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-13-0.0-0.5 (A307292-23) Soil Sampled: 07/10/03 10:15 Received: 07/10/03 17:45									
Oil & Grease (HEM)	4100	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.1	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-14-0.0-0.5 (A307292-24) Soil Sampled: 07/10/03 10:45 Received: 07/10/03 17:45									
Oil & Grease (HEM)	2800	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	5.7	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-15-0.0-0.5 (A307292-25) Soil Sampled: 07/10/03 11:05 Received: 07/10/03 17:45									
Oil & Grease (HEM)	3100	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-16-0.0-0.5 (A307292-26) Soil Sampled: 07/10/03 11:25 Received: 07/10/03 17:45									
Oil & Grease (HEM)	8000	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.3	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
D7-17-0.0-0.5 (A307292-27) Soil Sampled: 07/10/03 11:45 Received: 07/10/03 17:45									
Oil & Grease (HEM)	26000	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	5.6	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	
SDP-1-0.0-05 (A307292-28) Soil Sampled: 07/09/03 09:12 Received: 07/10/03 17:45									
Oil & Grease (HEM)	8100	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.7	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	

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Conventional Chemistry Parameters by APHA/EPA Methods

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SDP-1-2.0-2.5 (A307292-29) Soil Sampled: 07/09/03 09:25 Received: 07/10/03 17:45									
Oil & Grease (HEM)	460	50	mg/kg	1	AG32506	07/22/03	07/24/03	EPA 9071B	
pH	6.0	1.0	pH Units	"	AG31806	07/18/03	07/18/03	EPA 9045B	

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Metals by EPA 6000/7000 Series Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG31004 - EPA 3051 Microwave

Blank (AG31004-BLK1)

Prepared & Analyzed: 07/10/03

Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Zinc	ND	10	"							

LCS (AG31004-BS1)

Prepared & Analyzed: 07/10/03

Cadmium	20.7	1.0	mg/kg	20.0		104	85-115			
Chromium	21.2	5.0	"	20.0		106	85-115			
Lead	20.1	5.0	"	20.0		100	85-115			
Nickel	21.2	10	"	20.0		106	85-115			
Zinc	22.0	10	"	20.0		110	87.1-126			

LCS Dup (AG31004-BSD1)

Prepared & Analyzed: 07/10/03

Cadmium	21.3	1.0	mg/kg	20.0		106	85-115	2.86	20	
Chromium	21.6	5.0	"	20.0		108	85-115	1.87	20	
Lead	20.7	5.0	"	20.0		104	85-115	2.94	20	
Nickel	21.5	10	"	20.0		108	85-115	1.41	20	
Zinc	22.1	10	"	20.0		110	87.1-126	0.454	20	

Duplicate (AG31004-DUP1)

Source: A307197-01

Prepared & Analyzed: 07/10/03

Cadmium	ND	1.0	mg/kg		ND				20	
Chromium	33.7	5.0	"		46			30.9	20	QM-04
Lead	8.90	5.0	"		11			21.1	20	QM-04
Nickel	43.2	10	"		53			20.4	20	QM-04
Zinc	31.5	10	"		33			4.65	20	

Matrix Spike (AG31004-MS1)

Source: A307197-01

Prepared & Analyzed: 07/10/03

Cadmium	19.0	1.0	mg/kg	20.0	ND	95.0	70-130			
Chromium	54.8	5.0	"	20.0	46	44.0	70-130			QM-04
Lead	28.2	5.0	"	20.0	11	86.0	70-130			
Nickel	64.2	10	"	20.0	53	56.0	70-130			QM-04
Zinc	53.7	10	"	20.0	33	104	70-130			

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Metals by EPA 6000/7000 Series Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG31004 - EPA 3051 Microwave

Matrix Spike Dup (AG31004-MSD1)	Source: A307197-01			Prepared & Analyzed: 07/10/03						
Cadmium	18.2	1.0	mg/kg	20.0	ND	91.0	70-130	4.30	20	
Chromium	59.5	5.0	"	20.0	46	67.5	70-130	8.22	20	QM-04
Lead	29.2	5.0	"	20.0	11	91.0	70-130	3.48	20	
Nickel	68.3	10	"	20.0	53	76.5	70-130	6.19	20	QM-04
Zinc	54.9	10	"	20.0	33	110	70-130	2.21	20	

Batch AG31502 - EPA 3051 Microwave

Blank (AG31502-BLK1)	Prepared: 07/15/03 Analyzed: 07/22/03									
Cadmium	ND	1.0	mg/kg							
Chromium	ND	5.0	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Zinc	ND	10	"							

LCS (AG31502-BS1)	Prepared: 07/15/03 Analyzed: 07/22/03									
Cadmium	19.9	1.0	mg/kg	20.0		99.5	85-115			
Chromium	19.6	5.0	"	20.0		98.0	85-115			
Lead	20.1	5.0	"	20.0		100	85-115			
Nickel	20.0	10	"	20.0		100	85-115			
Zinc	21.3	10	"	20.0		106	87.1-126			

LCS Dup (AG31502-BSD1)	Prepared: 07/15/03 Analyzed: 07/22/03									
Cadmium	20.6	1.0	mg/kg	20.0		103	85-115	3.46	20	
Chromium	20.4	5.0	"	20.0		102	85-115	4.00	20	
Lead	20.8	5.0	"	20.0		104	85-115	3.42	20	
Nickel	20.5	10	"	20.0		102	85-115	2.47	20	
Zinc	22.4	10	"	20.0		112	87.1-126	5.03	20	

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Metals by EPA 6000/7000 Series Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG31502 - EPA 3051 Microwave

Duplicate (AG31502-DUP1)		Source: A307292-12			Prepared: 07/15/03		Analyzed: 07/22/03			
Cadmium	ND	1.0	mg/kg	ND					20	
Chromium	49.7	5.0	"	44			12.2		20	
Lead	13.9	5.0	"	18			25.7		20	QM-04
Nickel	41.1	10	"	42			2.17		20	
Zinc	130	10	"	140			7.41		20	

Matrix Spike (AG31502-MS1)		Source: A307292-12			Prepared: 07/15/03		Analyzed: 07/22/03			
Cadmium	17.8	1.0	mg/kg	20.0	ND	89.0	70-130			
Chromium	76.2	5.0	"	20.0	44	161	70-130			QM-04
Lead	38.4	5.0	"	20.0	18	102	70-130			
Nickel	59.8	10	"	20.0	42	89.0	70-130			
Zinc	164	10	"	20.0	140	120	70-130			

Matrix Spike Dup (AG31502-MSD1)		Source: A307292-12			Prepared: 07/15/03		Analyzed: 07/22/03			
Cadmium	16.2	1.0	mg/kg	20.0	ND	81.0	70-130	9.41	20	
Chromium	50.6	5.0	"	20.0	44	33.0	70-130	40.4	20	QM-04
Lead	30.8	5.0	"	20.0	18	64.0	70-130	22.0	20	QM-04
Nickel	54.8	10	"	20.0	42	64.0	70-130	8.73	20	QM-04
Zinc	137	10	"	20.0	140	NR	70-130	17.9	20	QM-4X

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Chlorinated Phenols by Canadian Pulp Method - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG32117 - Solvent Extraction

Blank (AG32117-BLK1)		Prepared: 07/16/03 Analyzed: 07/18/03								
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	0.111		"	0.124		89.5	23-140			

LCS (AG32117-BS1)		Prepared: 07/16/03 Analyzed: 07/18/03								
2,4,6-Trichlorophenol	0.0186	1.0	mg/kg	0.0250		74.4	32-116			
2,3,5,6-Tetrachlorophenol	0.0139	1.0	"	0.0250		55.6	18-80			
2,3,4,6-Tetrachlorophenol	0.0170	1.0	"	0.0250		68.0	28-89			
2,3,4,5-Tetrachlorophenol	0.0182	1.0	"	0.0250		72.8	54-85			
Pentachlorophenol	0.0159	1.0	"	0.0250		63.6	17-85			
Surrogate: Tribromophenol	0.115		"	0.124		92.7	23-140			

LCS Dup (AG32117-BSD1)		Prepared: 07/16/03 Analyzed: 07/18/03								
2,4,6-Trichlorophenol	0.0224	1.0	mg/kg	0.0250		89.6	32-116	18.5	50	
2,3,5,6-Tetrachlorophenol	0.0115	1.0	"	0.0250		46.0	18-80	18.9	50	
2,3,4,6-Tetrachlorophenol	0.0182	1.0	"	0.0250		72.8	28-89	6.82	50	
2,3,4,5-Tetrachlorophenol	0.0173	1.0	"	0.0250		69.2	54-85	5.07	50	
Pentachlorophenol	0.0154	1.0	"	0.0250		61.6	17-85	3.19	50	
Surrogate: Tribromophenol	0.112		"	0.124		90.3	23-140			

Batch AG32119 - Solvent Extraction

Blank (AG32119-BLK1)		Prepared: 07/17/03 Analyzed: 07/19/03								
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	0.0760		"	0.124		61.3	23-140			

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Chlorinated Phenols by Canadian Pulp Method - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG32119 - Solvent Extraction

LCS (AG32119-BS1)		Prepared: 07/17/03 Analyzed: 07/19/03								
2,4,6-Trichlorophenol	0.0157	1.0	mg/kg	0.0250		62.8	32-116			
2,3,5,6-Tetrachlorophenol	0.0112	1.0	"	0.0250		44.8	18-80			
2,3,4,6-Tetrachlorophenol	0.0131	1.0	"	0.0250		52.4	28-89			
2,3,4,5-Tetrachlorophenol	0.0144	1.0	"	0.0250		57.6	54-85			
Pentachlorophenol	0.0123	1.0	"	0.0250		49.2	17-85			
Surrogate: Tribromophenol	0.0660		"	0.124		53.2	23-140			

LCS Dup (AG32119-BS1)		Prepared: 07/17/03 Analyzed: 07/19/03								
2,4,6-Trichlorophenol	0.0158	1.0	mg/kg	0.0250		63.2	32-116	0.635	50	
2,3,5,6-Tetrachlorophenol	0.0114	1.0	"	0.0250		45.6	18-80	1.77	50	
2,3,4,6-Tetrachlorophenol	0.0139	1.0	"	0.0250		55.6	28-89	5.93	50	
2,3,4,5-Tetrachlorophenol	0.0141	1.0	"	0.0250		56.4	54-85	2.11	50	
Pentachlorophenol	0.0123	1.0	"	0.0250		49.2	17-85	0.00	50	
Surrogate: Tribromophenol	0.0610		"	0.124		49.2	23-140			

Batch AG32121 - Solvent Extraction

Blank (AG32121-BLK1)		Prepared: 07/18/03 Analyzed: 07/21/03								
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	0.0990		"	0.124		79.8	23-140			

LCS (AG32121-BS1)		Prepared: 07/18/03 Analyzed: 07/21/03								
2,4,6-Trichlorophenol	0.0164	1.0	mg/kg	0.0250		65.6	32-116			
2,3,5,6-Tetrachlorophenol	0.00870	1.0	"	0.0250		34.8	18-80			
2,3,4,6-Tetrachlorophenol	0.0151	1.0	"	0.0250		60.4	28-89			
2,3,4,5-Tetrachlorophenol	0.0144	1.0	"	0.0250		57.6	54-85			
Pentachlorophenol	0.0103	1.0	"	0.0250		41.2	17-85			
Surrogate: Tribromophenol	0.0770		"	0.124		62.1	23-140			

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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MFG, Inc.



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
--	--	-----------------------------

Chlorinated Phenols by Canadian Pulp Method - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AG32121 - Solvent Extraction

LCS Dup (AG32121-BSD1)		Prepared: 07/18/03 Analyzed: 07/21/03								
2,4,6-Trichlorophenol	0.0180	1.0	mg/kg	0.0250	72.0	32-116	9.30	50		
2,3,5,6-Tetrachlorophenol	0.0113	1.0	"	0.0250	45.2	18-80	26.0	50		
2,3,4,6-Tetrachlorophenol	0.0155	1.0	"	0.0250	62.0	28-89	2.61	50		
2,3,4,5-Tetrachlorophenol	0.0153	1.0	"	0.0250	61.2	54-85	6.06	50		
Pentachlorophenol	0.0107	1.0	"	0.0250	42.8	17-85	3.81	50		
Surrogate: Tribromophenol	0.0870		"	0.124	70.2	23-140				

Batch AG32307 - Solvent Extraction

Blank (AG32307-BLK1)		Prepared: 07/20/03 Analyzed: 07/22/03								
2,4,6-Trichlorophenol	ND	1.0	mg/kg							
2,3,5,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,6-Tetrachlorophenol	ND	1.0	"							
2,3,4,5-Tetrachlorophenol	ND	1.0	"							
Pentachlorophenol	ND	1.0	"							
Surrogate: Tribromophenol	0.0990		"	0.124	79.8	23-140				

LCS (AG32307-BS1)		Prepared: 07/20/03 Analyzed: 07/22/03								
2,4,6-Trichlorophenol	0.0231	1.0	mg/kg	0.0250	92.4	32-116				
2,3,5,6-Tetrachlorophenol	0.0136	1.0	"	0.0250	54.4	18-80				
2,3,4,6-Tetrachlorophenol	0.0187	1.0	"	0.0250	74.8	28-89				
2,3,4,5-Tetrachlorophenol	0.0183	1.0	"	0.0250	73.2	54-85				
Pentachlorophenol	0.0137	1.0	"	0.0250	54.8	17-85				
Surrogate: Tribromophenol	0.0940		"	0.124	75.8	23-140				

LCS Dup (AG32307-BSD1)		Prepared: 07/20/03 Analyzed: 07/22/03								
2,4,6-Trichlorophenol	0.0291	1.0	mg/kg	0.0250	116	32-116	23.0	50		
2,3,5,6-Tetrachlorophenol	0.0109	1.0	"	0.0250	43.6	18-80	22.0	50		
2,3,4,6-Tetrachlorophenol	0.0169	1.0	"	0.0250	67.6	28-89	10.1	50		
2,3,4,5-Tetrachlorophenol	0.0152	1.0	"	0.0250	60.8	54-85	18.5	50		
Pentachlorophenol	0.0110	1.0	"	0.0250	44.0	17-85	21.9	50		
Surrogate: Tribromophenol	0.0750		"	0.124	60.5	23-140				

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

MFG, Inc 180 Howard St. Suite 200 San Francisco CA, 94105-2941	Project: SPI-Arcata/Task #4 Project Number: 030229.4 Project Manager: Ed Conti	Reported: 07/26/03 09:17
--	--	------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AG31708 - General Preparation

Blank (AG31708-BLK1)				Prepared: 07/15/03 Analyzed: 07/18/03						
Oil & Grease (HEM)	ND	50	mg/kg							
LCS (AG31708-BS1)				Prepared: 07/15/03 Analyzed: 07/18/03						
Oil & Grease (HEM)	3490	50	mg/kg	3500		99.7	80-120			
LCS Dup (AG31708-BSD1)				Prepared: 07/15/03 Analyzed: 07/18/03						
Oil & Grease (HEM)	3490	50	mg/kg	3500		99.7	80-120	0.00	20	
Duplicate (AG31708-DUP1)				Source: A307292-05		Prepared: 07/15/03 Analyzed: 07/18/03				
Oil & Grease (HEM)	5840	50	mg/kg		6200			5.98	200	
Matrix Spike (AG31708-MS1)				Source: A307292-05		Prepared: 07/15/03 Analyzed: 07/18/03				
Oil & Grease (HEM)	9020	50	mg/kg	3000	6200	94.0	80-120			
Matrix Spike Dup (AG31708-MSD1)				Source: A307292-05		Prepared: 07/15/03 Analyzed: 07/18/03				
Oil & Grease (HEM)	9500	50	mg/kg	3000	6200	110	80-120	5.18	20	

Batch AG32506 - General Preparation

Blank (AG32506-BLK1)				Prepared: 07/23/03 Analyzed: 07/24/03						
Oil & Grease (HEM)	ND	50	mg/kg							
LCS (AG32506-BS1)				Prepared: 07/23/03 Analyzed: 07/24/03						
Oil & Grease (HEM)	3490	50	mg/kg	3500		99.7	80-120			
LCS Dup (AG32506-BSD1)				Prepared: 07/23/03 Analyzed: 07/24/03						
Oil & Grease (HEM)	3500	50	mg/kg	3500		100	80-120	0.286	20	

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Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc
180 Howard St. Suite 200
San Francisco CA, 94105-2941

Project: SPI-Arcata/Task #4
Project Number: 030229.4
Project Manager: Ed Conti

Reported:
07/26/03 09:17

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AG32506 - General Preparation										
Duplicate (AG32506-DUP1)		Source: A307292-19		Prepared: 07/23/03		Analyzed: 07/24/03				
Oil & Grease (HEM)	3340	50	mg/kg		2300			36.9	200	
Matrix Spike (AG32506-MS1)		Source: A307292-19		Prepared: 07/23/03		Analyzed: 07/24/03				
Oil & Grease (HEM)	4420	50	mg/kg	2500	2300	84.8	80-120			
Matrix Spike Dup (AG32506-MSD1)		Source: A307292-19		Prepared: 07/23/03		Analyzed: 07/24/03				
Oil & Grease (HEM)	3720	50	mg/kg	2500	2300	56.8	80-120	17.2	20	QM-05

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

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MFG, Inc
180 Howard St. Suite 200
San Francisco CA, 94105-2941

Project: SPI-Arcata/Task #4
Project Number: 030229.4
Project Manager: Ed Conti

Reported:
07/26/03 09:17

Notes and Definitions

- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Nena M. Burgess For Sheri L. Speaks, Project Manager

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Page 32 of 32

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43263**

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

San Francisco Office
100 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: **030229.4**

PROJECT NAME: **Sierra Pacific**

PAGE: **1** OF: **3**

SAMPLER (Signature): *[Signature]*

PROJECT MANAGER: **Ed Cont**

DATE: **7/10/03**

METHOD OF SHIPMENT: **courier**

CARRIER/WAYBILL NO.: **NA**

DESTINATION: **Alpha**

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MFG, Inc.
Field
Sample
Identification

SAMPLES

ANALYSIS REQUEST

Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks			
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	Wear Metals	pH	Total Oil & Grease		HOLD	RUSH	STANDARD
RP-1 - 0.0 - 0.5	7/8/03	12:16	SD			X	U	6"sl	B	1	X	X				7/8/03 - 11:00 per Chris Spill - Re-run O&G with SG Cleanup. 10/18
RP-1 - 0.5 - 1.0		12:22				X	U	6"sl	B	1	X	X				A307292-1
RP-1 - 1.0 - 1.5		12:27				X	U	6"sl	B	1	X	X				-2
RP-1 - 1.5 - 2.0		12:31				X	U	6"sl	B	1	X	X				-3
RP-1 - 2.0 - 2.5		12:37	U			X	U	6"sl	B	1	X	X				-4
RP-2 - 0.0 - 0.5	7/8/03	15:23	SD			X	U	6"sl	B	1	X	X				-5
RP-2 - 0.5 - 1.0		15:26				X	U	6"sl	B	1	X	X				-6
RP-2 - 1.0 - 1.5		15:31				X	U	6"sl	B	1	X	X				-7
RP-2 - 1.5 - 2.0		15:36				X	U	6"sl	B	1	X	X				-8
RP-2 - 2.0 - 2.5		15:41				X	U	6"sl	B	1	X	X				-9
TOTAL NUMBER OF CONTAINERS: 29													LABORATORY COMMENTS/CONDITION OF SAMPLES		Cooler Temp:	

RELINQUISHED BY:

RECEIVED BY:

SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<i>[Signature]</i>	Christopher Spill	MFG-SF	7/10/03	1:25	<i>[Signature]</i>	J. Matthews	Alpha
<i>[Signature]</i>	J. Matthews	Alpha	7/10/03	18:45	<i>[Signature]</i>	S. Speckard	Alpha
				17:45			LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

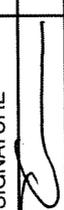
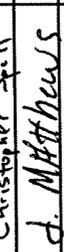
CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43131**

Arcata Office 1165 G Street, Suite E Arcata, CA 95521-5817 Tel: (707) 826-8430 Fax: (707) 826-8437
 Boulder Office 4900 Pearl East Circle Suite 300W Boulder, CO 80501-6118 Tel: (303) 447-1823 Fax: (303) 447-1836
 Irvine Office 17770 Carwright Road Suite 500 Irvine, CA 92614-5650 Tel: (949) 253-2951 Fax: (949) 253-2954
 Ostrom Office P.O. Box 30 Malibu, CA 90262-3709 Tel: (310) 556-6811 Fax: (310) 556-7271
 Seattle Office 19203 36th Avenue W, Suite 101 Lynnwood, WA 98036-5707 Tel: (425) 921-4000 Fax: (425) 921-4040
 San Francisco Office 180 Howard Street, Suite 200 San Francisco, CA 94105-1617 Phone (415) 495-7110 - Fax (415) 495-7107

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 3 OF: 3
 SAMPLER (Signature):  PROJECT MANAGER: Ed Coak DATE: 7/10/03
 METHOD OF SHIPMENT: Carrier CARRIER/WAYBILL NO: NA DESTINATION: Alpha

Field Sample Identification		SAMPLES				ANALYSIS REQUEST				Remarks								
		Sample		Preservation		Containers		Constituents/Method			Handling							
DATE	TIME	MATRIX*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	PH	Lead Metals	Total Cr+G	Chlor. Phenols	HOLD	RUSH	STANDARD	
07-11-0.0-0.5	7/10/03 9:36	SO		X		X	U	6"SI	B	1	X	X	X	X	X	X	X	A30729a-21
07-12-0.0-0.5	10:00			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	22
07-13-0.0-0.5	10:15			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	23
07-14-0.0-0.5	10:45			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	24
07-15-0.0-0.5	11:05			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	25
07-16-0.0-0.5	11:25			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	26
07-17-0.0-0.5	11:45			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	27
SDP-1-0.0-0.5	7/9/03 9:12	SO		X		X	U	6"SI	B	1	X	X	X	X	X	X	X	28
SDP-1-2.0-2.5	9:25			X		X	U	6"SI	B	1	X	X	X	X	X	X	X	29
TOTAL NUMBER OF CONTAINERS										29	LABORATORY COMMENTS/CONDITION OF SAMPLES							Cooler Temp:

RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
	Christopher Spill	MFG-SF		J. Matthews	
	d. Matthews	Alpha		B. Speaks	S. Speaks

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

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CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC NO. **43130**

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 Osburn Office W.O. Box 30 Waco, TX 76706-0030 Tel: (208) 556-6811 Fax: (208) 556-7271
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 Seattle Office 19203 36th Avenue W. Suite 101 Lynnwood, WA 98036-5707 Tel: (425) 921-4000 Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 2 OF: 3
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 7/10/03
 METHOD OF SHIPMENT: Courier CARRIER/WAYBILL NO.: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST						
Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks			
	DATE	TIME	HCl	HNO ₃	H ₂ O ₂	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	PH	Metals	Chlor. Phenols		HOLD	RUSH	STANDARD
07-1-0.0-0.5	7/9/03	10:20			X	U	6"sl	B	1	X	X	X				7/29/03 - 0930 Per Chris Spill re-run O&G with SG Cleanup - 7/29/03
07-2-0.0-0.5		10:52			X	U	6"sl	B	1	X	X	X				A307292-11
07-3-0.0-0.5		11:40			X	U	6"sl	B	1	X	X	X				12
07-4-0.0-0.5		12:30			X	U	6"sl	B	1	X	X	X				13
07-5-0.0-0.5					X	U	6"sl	B	1	X	X	X				14
07-6-0.0-0.5		15:37			X	U	6"sl	B	1	X	X	X				15
07-7-0.0-0.5		16:25			X	U	6"sl	B	1	X	X	X				16
07-8-0.0-0.5		17:20			X	U	6"sl	B	1	X	X	X				17
07-9-0.0-0.5	7/10/03	8:40			X	U	6"sl	B	1	X	X	X				18
07-10-0.0-0.5		9:10			X	U	6"sl	B	1	X	X	X				19
TOTAL NUMBER OF CONTAINERS 29										LABORATORY COMMENTS/CONDITION OF SAMPLES						Cooler Temp:

RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	Christopher Spill	MFG-SF	<u>[Signature]</u>	S. Speaks	Alpha LABORATORY
	J. Matthews	Alpha			

*KEY Matrix: AO - aqueous MA - non-aqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK Field Copy - YELLOW Laboratory Copy WHITE: Return to Originator



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Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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07 August 2003

MFG, Inc

Attn: Ed Conti

180 Howard St. Suite 200

San Francisco, CA 94105-2941

RE: SPI-Arcata/Task #4

Work Order: A307477

Enclosed are the results of analyses for samples received by the laboratory on 07/21/03 11:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cheryl Watson For Karen A. Daly
Project Manager

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AUG 11 2003

MFG, Inc.



Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 1 of 9

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u> A307477	<u>Receipt Date/Time</u> 07/21/2003 11:00	<u>Client Code</u> MFGINC	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RP-1 - 0.0-0.5 (ref. A307292-1)	A307477-01	Soil	07/08/03 12:16	07/21/03 11:00
RP-1 - 0.5-1.0 (ref. A307292-02)	A307477-02	Soil	07/08/03 12:22	07/21/03 11:00
RP-1 - 1.0-1.5 (ref. A307292-03)	A307477-03	Soil	07/08/03 12:27	07/21/03 11:00
RP-1 - 1.5-2.0 (ref. A307292-04)	A307477-04	Soil	07/08/03 12:31	07/21/03 11:00
RP-1 - 2.0-2.5 (ref. A307292-05)	A307477-05	Soil	07/08/03 12:37	07/21/03 11:00
RP-2 - 0.0-0.5 (ref. A307292-06)	A307477-06	Soil	07/08/03 15:23	07/21/03 11:00
RP-2 - 0.5-1.0 (ref. A307292-07)	A307477-07	Soil	07/08/03 15:26	07/21/03 11:00
RP-2 - 1.0-1.5 (ref. A307292-08)	A307477-08	Soil	07/08/03 15:31	07/21/03 11:00
RP-2 - 1.5-2.0 (ref. A307292-09)	A307477-09	Soil	07/08/03 15:36	07/21/03 11:00
RP-2 - 2.0-2.5 (ref. A307292-10)	A307477-10	Soil	07/08/03 15:41	07/21/03 11:00
D7-1 - 0.0-0.5 (ref. A307292-11)	A307477-11	Soil	07/09/03 10:20	07/21/03 11:00
D7-2 - 0.0-0.5 (ref. A307292-12)	A307477-12	Soil	07/09/03 10:52	07/21/03 11:00
D7-3 - 0.0-0.5 (ref. A307292-13)	A307477-13	Soil	07/09/03 11:40	07/21/03 11:00
D7-4 - 0.0-0.5 (ref. A307292-14)	A307477-14	Soil	07/09/03 12:30	07/21/03 11:00
D7-5 - 0.0-0.5 (ref. A307292-15)	A307477-15	Soil	07/09/03 00:00	07/21/03 11:00
D7-6 - 0.0-0.5 (ref. A307292-16)	A307477-16	Soil	07/09/03 15:37	07/21/03 11:00
D7-7 - 0.0-0.5 (ref. A307292-17)	A307477-17	Soil	07/09/03 16:25	07/21/03 11:00
D7-8 - 0.0-0.5 (ref. A307292-18)	A307477-18	Soil	07/09/03 17:20	07/21/03 11:00
D7-9 - 0.0-0.5 (ref. A307292-19)	A307477-19	Soil	07/10/03 08:40	07/21/03 11:00
D7-10 - 0.0-0.5 (ref. A307292-20)	A307477-20	Soil	07/10/03 09:10	07/21/03 11:00
D7-11 - 0.0-0.5 (ref. A307292-21)	A307477-21	Soil	07/10/03 09:36	07/21/03 11:00
D7-12 - 0.0-0.5 (ref. A307292-22)	A307477-22	Soil	07/10/03 10:00	07/21/03 11:00
D7-13 - 0.0-0.5 (ref. A307292-23)	A307477-23	Soil	07/10/03 10:15	07/21/03 11:00
D7-14 - 0.0-0.5 (ref. A307292-24)	A307477-24	Soil	07/10/03 10:45	07/21/03 11:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Cheryl Watson For Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 2 of 9

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>		<u>Client PO/Reference</u>	
A307477	07/21/2003 11:00	MFGINC			
D7-15 - 0.0-0.5 (ref. A307292-25)		A307477-25	Soil	07/10/03 11:05	07/21/03 11:00
D7-16 - 0.0-0.5 (ref. A307292-26)		A307477-26	Soil	07/10/03 11:25	07/21/03 11:00
D7-17 - 0.0-0.5 (ref. A307292-27)		A307477-27	Soil	07/10/03 11:45	07/21/03 11:00
SDP-1 - 0.0-0.5 (ref. A307292-28)		A307477-28	Soil	07/09/03 09:12	07/21/03 11:00
SDP-1 - 2.0-2.5 (ref. A307292-29)		A307477-29	Soil	07/09/03 09:25	07/21/03 11:00

Receive date indicates date additional analysis requested. Actual receive date was 7/10/03 17:45.

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Cheryl Watson For Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
RP-1 - 0.0-0.5 (ref. A307292-1) (A307477-01)		Sample Type: Soil		Sampled: 07/08/03 12:16			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	6400 mg/kg	50
RP-1 - 0.5-1.0 (ref. A307292-02) (A307477-02)		Sample Type: Soil		Sampled: 07/08/03 12:22			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	13000 mg/kg	50
RP-1 - 1.0-1.5 (ref. A307292-03) (A307477-03)		Sample Type: Soil		Sampled: 07/08/03 12:27			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	25000 mg/kg	50
RP-1 - 1.5-2.0 (ref. A307292-04) (A307477-04)		Sample Type: Soil		Sampled: 07/08/03 12:31			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	5000 mg/kg	50
RP-1 - 2.0-2.5 (ref. A307292-05) (A307477-05)		Sample Type: Soil		Sampled: 07/08/03 12:37			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	7100 mg/kg	50
RP-2 - 0.0-0.5 (ref. A307292-06) (A307477-06)		Sample Type: Soil		Sampled: 07/08/03 15:23			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	75 mg/kg	50
RP-2 - 0.5-1.0 (ref. A307292-07) (A307477-07)		Sample Type: Soil		Sampled: 07/08/03 15:26			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	130 mg/kg	50
RP-2 - 1.0-1.5 (ref. A307292-08) (A307477-08)		Sample Type: Soil		Sampled: 07/08/03 15:31			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	160 mg/kg	50
RP-2 - 1.5-2.0 (ref. A307292-09) (A307477-09)		Sample Type: Soil		Sampled: 07/08/03 15:36			

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Cheryl Watson For Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 4 of 9

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
RP-2 - 1.5-2.0 (ref. A307292-09) (A307477-09)		Sample Type: Soil		Sampled: 07/08/03 15:36			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	50 mg/kg	50
RP-2 - 2.0-2.5 (ref. A307292-10) (A307477-10)		Sample Type: Soil		Sampled: 07/08/03 15:41			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	70 mg/kg	50
D7-1 - 0.0-0.5 (ref. A307292-11) (A307477-11)		Sample Type: Soil		Sampled: 07/09/03 10:20			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	400 mg/kg	50
D7-2 - 0.0-0.5 (ref. A307292-12) (A307477-12)		Sample Type: Soil		Sampled: 07/09/03 10:52			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/25/03	07/30/03	1	780 mg/kg	50
D7-3 - 0.0-0.5 (ref. A307292-13) (A307477-13)		Sample Type: Soil		Sampled: 07/09/03 11:40			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	1100 mg/kg	50
D7-4 - 0.0-0.5 (ref. A307292-14) (A307477-14)		Sample Type: Soil		Sampled: 07/09/03 12:30			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	1500 mg/kg	50
D7-5 - 0.0-0.5 (ref. A307292-15) (A307477-15)		Sample Type: Soil		Sampled: 07/09/03 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	3200 mg/kg	50
D7-6 - 0.0-0.5 (ref. A307292-16) (A307477-16)		Sample Type: Soil		Sampled: 07/09/03 15:37			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	100 mg/kg	50
D7-7 - 0.0-0.5 (ref. A307292-17) (A307477-17)		Sample Type: Soil		Sampled: 07/09/03 16:25			

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Cheryl Watson For Karen A. Daly
Project Manager

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180 Howard St. Suite 200
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Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-7 - 0.0-0.5 (ref. A307292-17) (A307477-17)		Sample Type: Soil		Sampled: 07/09/03 16:25			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	160 mg/kg	50
D7-8 - 0.0-0.5 (ref. A307292-18) (A307477-18)		Sample Type: Soil		Sampled: 07/09/03 17:20			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	1200 mg/kg	50
D7-9 - 0.0-0.5 (ref. A307292-19) (A307477-19)		Sample Type: Soil		Sampled: 07/10/03 08:40			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30412	07/29/03	07/30/03	1	320 mg/kg	50
D7-10 - 0.0-0.5 (ref. A307292-20) (A307477-20)		Sample Type: Soil		Sampled: 07/10/03 09:10			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	630 mg/kg	50
D7-11 - 0.0-0.5 (ref. A307292-21) (A307477-21)		Sample Type: Soil		Sampled: 07/10/03 09:36			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	6100 mg/kg	50
D7-12 - 0.0-0.5 (ref. A307292-22) (A307477-22)		Sample Type: Soil		Sampled: 07/10/03 10:00			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	120 mg/kg	50
D7-13 - 0.0-0.5 (ref. A307292-23) (A307477-23)		Sample Type: Soil		Sampled: 07/10/03 10:15			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	960 mg/kg	50
D7-14 - 0.0-0.5 (ref. A307292-24) (A307477-24)		Sample Type: Soil		Sampled: 07/10/03 10:45			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	840 mg/kg	50
D7-15 - 0.0-0.5 (ref. A307292-25) (A307477-25)		Sample Type: Soil		Sampled: 07/10/03 11:05			

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Project Manager

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CHEMICAL EXAMINATION REPORT

Page 6 of 9

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-15 - 0.0-0.5 (ref. A307292-25) (A307477-25)		Sample Type: Soil		Sampled: 07/10/03 11:05			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	1100 mg/kg	50
D7-16 - 0.0-0.5 (ref. A307292-26) (A307477-26)		Sample Type: Soil		Sampled: 07/10/03 11:25			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	7200 mg/kg	50
D7-17 - 0.0-0.5 (ref. A307292-27) (A307477-27)		Sample Type: Soil		Sampled: 07/10/03 11:45			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	11000 mg/kg	50
SDP-1 - 0.0-0.5 (ref. A307292-28) (A307477-28)		Sample Type: Soil		Sampled: 07/09/03 09:12			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	3600 mg/kg	50
SDP-1 - 2.0-2.5 (ref. A307292-29) (A307477-29)		Sample Type: Soil		Sampled: 07/09/03 09:25			
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30606	07/31/03	08/01/03	1	150 mg/kg	50

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Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30412 - General Preparation										
Blank (AH30412-BLK1)				Prepared: 07/25/03 Analyzed: 07/30/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AH30412-BS1)				Prepared: 07/25/03 Analyzed: 07/30/03						
Oil & Grease (HEM-SG)	2940	50	mg/kg	3000		98.0	80-120			
LCS Dup (AH30412-BSD1)				Prepared: 07/29/03 Analyzed: 07/30/03						
Oil & Grease (HEM-SG)	2920	50	mg/kg	3000		97.3	80-120	0.683	20	
Matrix Spike (AH30412-MS1)				Source: A307477-17 Prepared: 07/25/03 Analyzed: 07/30/03						
Oil & Grease (HEM-SG)	1550	50	mg/kg	1500	160	92.7	70-130			
Matrix Spike Dup (AH30412-MSD1)				Source: A307477-17 Prepared: 07/25/03 Analyzed: 07/30/03						
Oil & Grease (HEM-SG)	1560	50	mg/kg	1500	160	93.3	70-130	0.643	20	
Batch AH30606 - General Preparation										
Blank (AH30606-BLK1)				Prepared: 08/04/03 Analyzed: 08/05/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AH30606-BS1)				Prepared: 08/04/03 Analyzed: 08/05/03						
Oil & Grease (HEM-SG)	2720	50	mg/kg	3000		90.7	80-120			
LCS Dup (AH30606-BSD1)				Prepared: 08/04/03 Analyzed: 08/05/03						
Oil & Grease (HEM-SG)	2900	50	mg/kg	3000		96.7	80-120	6.41	20	
Duplicate (AH30606-DUP1)				Source: A307477-21 Prepared: 08/04/03 Analyzed: 08/05/03						
Oil & Grease (HEM-SG)	7880	50	mg/kg		6100			25.5	200	

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Cheryl Watson For Karen A. Daly
Project Manager

8/7/03



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CHEMICAL EXAMINATION REPORT

Page 8 of 9

MFG, Inc
180 Howard St. Suite 200
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Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307477 07/21/2003 11:00 MFGINC

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30606 - General Preparation										
Duplicate (AH30606-DUP2) Source: A307477-29 Prepared: 08/04/03 Analyzed: 08/05/03										
Oil & Grease (HEM-SG)	130	50	mg/kg		150			14.3	200	
Matrix Spike (AH30606-MS1) Source: A307477-29 Prepared: 08/04/03 Analyzed: 08/05/03										
Oil & Grease (HEM-SG)	1560	50	mg/kg	1500	150	94.0	70-120			
Matrix Spike Dup (AH30606-MSD1) Source: A307477-29 Prepared: 08/04/03 Analyzed: 08/05/03										
Oil & Grease (HEM-SG)	1610	50	mg/kg	1500	150	97.3	70-120	3.15	20	

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Cheryl Watson For Karen A. Daly
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 9 of 9

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/07/03 10:21
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A307477	07/21/2003 11:00	MFGINC	

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43263**

Arcata Office
155 G St, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
8000 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
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Irvine Office
1777 Carwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 252-2951
Fax: (949) 252-2954

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.4

PROJECT NAME: Sierra Pacific

PAGE: 1 OF: 3

SAMPLER (Signature): [Signature]

PROJECT MANAGER: Ed Coats

DATE: 7/10/03

METHOD OF SHIPMENT: Carrier

CARRIER/WAYBILL NO.: NA

DESTINATION: Alpha

SAMPLES

ANALYSIS REQUEST A307477

Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks			
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	FILTRATION*	VOLUME (m/oz)	TYPE	NO.	Wear Metals	pH	Other Metals		HOLD	RUSH	STANDARD
RP-1 - 0.0 - 0.5	7/8/03	12:16			X	U	6"sl	B	1	X	X	Chlor, Phos				7/8/03 - 11:00 per Chris Spill - Re-run O&G with SG Cleanup. Follow 18 A307292 - 1 - 2 - 3 - 4 RECEIVED AUG 11 2003 MFG Inc.
RP-1 - 0.5 - 1.0		12:22			X	U	6"sl	B	1	X	X					
RP-1 - 1.0 - 1.5		12:27			X	U	6"sl	B	1	X	X					
RP-1 - 1.5 - 2.0		12:31			X	U	6"sl	B	1	X	X					
RP-1 - 2.0 - 2.5		12:37			X	U	6"sl	B	1	X	X					
RP-2 - 0.0 - 0.5	7/8/03	15:23			X	U	6"sl	B	1	X	X					
RP-2 - 0.5 - 1.0		15:26			X	U	6"sl	B	1	X	X					
RP-2 - 1.0 - 1.5		15:21			X	U	6"sl	B	1	X	X					
RP-2 - 1.5 - 2.0		15:36			X	U	6"sl	B	1	X	X					
RP-2 - 2.0 - 2.5		15:41			X	U	6"sl	B	1	X	X					

TOTAL NUMBER OF CONTAINERS (29)

Cooler Temp:

RELINQUISHED BY:

RECEIVED BY:

SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	Christopher Spill	RFCSF	7/10/03	1:25	<u>[Signature]</u>	J. Matthews	Alpha
<u>[Signature]</u>	J. Matthews	Alpha	7/10/03	18:45	<u>[Signature]</u>	S. Specko	Alpha
				17:45			LABORATORY

*KEY Matrix: AQ - aqueous MA - nonaqueous SO - soil SI - sledge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator
 Filtration: F - filtered U - unfiltered

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43130**

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone: (415) 495-7110 - Fax: (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 2 OF: 3
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 7/10/03
 METHOD OF SHIPMENT: Carrier CARRIER/WAYBILL NO.: NA DESTINATION: Alpha

SAMPLES				ANALYSIS REQUEST				REMARKS								
Field Sample Identification	DATE	TIME	Matrix*	Preservation		Containers			Constituents/Method	Handling						
				HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*		VOLUME (ml/oz)	TYPE	NO.	HOLD	RUSH	STANDARD	
D7-1-0.0-0.5	7/9/03	10:20	SO				X	U	6"sl	B	1	X	X	X	X	A 307477 A307292-11 12 13 14 15 16 17 18 19 20
D7-2-0.0-0.5		10:52					X	U	6"sl	B	1	X	X	X	X	
D7-3-0.0-0.5		11:40					X	U	6"sl	B	1	X	X	X	X	
D7-4-0.0-0.5		12:30					X	U	6"sl	B	1	X	X	X	X	
D7-5-0.0-0.5		15:37					X	U	6"sl	B	1	X	X	X	X	
D7-6-0.0-0.5		16:25					X	U	6"sl	B	1	X	X	X	X	
D7-7-0.0-0.5		17:20	↓				X	U	6"sl	B	1	X	X	X	X	
D7-8-0.0-0.5		7/10/03	SO				X	U	6"sl	B	1	X	X	X	X	
D7-9-0.0-0.5		8:40	SO				X	U	6"sl	B	1	X	X	X	X	
D7-10-0.0-0.5		9:10	↓				X	U	6"sl	B	1	X	X	X	X	

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LABORATORY COMMENTS/CONDITION OF SAMPLES
Cooler Temp: _____

TOTAL NUMBER OF CONTAINERS **29**

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME
<u>[Signature]</u>	Christopher Spill	<u>[Signature]</u>	S. Speaks
	MFG-SF		S. Speaks
	Alpha		Alpha
			LABORATORY

*KEY Matrix: AO - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK - Field Copy YELLOW - Laboratory Copy WHITE - Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43131**

Arcata Office
165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Irvine Office
17770 Cartwright Road
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Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone: (415) 495-7110 - Fax: (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 3 OF: 3
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Cook DATE: 7/10/03
 METHOD OF SHIPMENT: Carrier CARRIER/WAYBILL NO: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST								
Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks					
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (m/oz)	TYPE	NO.	Ver Metals	PH		Total O+S	Chlor. Phenols	HOLD	RUSH	STANDARD
07-11-0.0-0.5	7/10/03	9:36	SO			X	U	6"sl	B	1	X	X	X	X				A 367477- A307292-21
07-12-0.0-0.5		10:00				X	U	6"sl	B	1	X	X	X	X				22
07-13-0.0-0.5		10:15				X	U	6"sl	B	1	X	X	X	X				23
07-14-0.0-0.5		10:45				X	U	6"sl	B	1	X	X	X	X				24
07-15-0.0-0.5		11:05				X	U	6"sl	B	1	X	X	X	X				25
07-16-0.0-0.5		11:25				X	U	6"sl	B	1	X	X	X	X				26
07-17-0.0-0.5		11:45				X	U	6"sl	B	1	X	X	X	X				27
SDP-1-0.0-0.5	7/9/03	9:12	SO			X	U	6"sl	B	1	X	X	X	X				28
SDP-1-2.0-2.5		9:25				X	U	6"sl	B	1	X	X	X	X				29
TOTAL NUMBER OF CONTAINERS 29										LABORATORY COMMENT/CONDITION OF SAMPLES			Cooler Temp:					

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RELINQUISHED BY:			RECEIVED BY:			
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	PRINTED NAME	COMPANY
<u>[Signature]</u>	Christopher Spill	MFG-SF	7/10/03	1:25	<u>[Signature]</u>	
<u>[Signature]</u>	d. Matthews	Alpha	7/10/03	15:45	B. Specko	S. Specko
				17:45		LABORATORY

*KEY Matrix: AQ - aqueous NA - non-aqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator



Alpha

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

11 August 2003

MFG, Inc

Attn: Ed Conti

180 Howard St. Suite 200

San Francisco, CA 94105-2941

RE: SPI-Arcata/Task #4

Work Order: A307606

Enclosed are the results of analyses for samples received by the laboratory on 07/25/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 1 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307606 07/25/2003 15:40 MFGINC

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D6-1-0.0-0.5	A307606-01	Soil	07/22/03 09:35	07/25/03 15:40
D6-2-0.0-0.5	A307606-02	Soil	07/22/03 10:25	07/25/03 15:40
D6-3-0.0-0.5	A307606-03	Soil	07/22/03 11:10	07/25/03 15:40
D6-4-0.0-0.5	A307606-04	Soil	07/22/03 11:45	07/25/03 15:40
D6-5-0.0-0.5	A307606-05	Soil	07/22/03 15:00	07/25/03 15:40
D6-6-0.0-0.5	A307606-06	Soil	07/22/03 15:30	07/25/03 15:40
D6-7-0.0-0.5	A307606-07	Soil	07/22/03 16:05	07/25/03 15:40
D6-8-0.0-0.5	A307606-08	Soil	07/23/03 09:00	07/25/03 15:40
D6-9-0.0-0.5	A307606-09	Soil	07/23/03 09:50	07/25/03 15:40
D6-10-0.0-0.5	A307606-10	Soil	07/23/03 10:20	07/25/03 15:40
D6-11-0.0-0.5	A307606-11	Soil	07/23/03 10:50	07/25/03 15:40
D6-12-0.0-0.5	A307606-12	Soil	07/23/03 11:10	07/25/03 15:40
D6-13-0.0-0.5	A307606-13	Soil	07/23/03 13:50	07/25/03 15:40
D6-14-0.0-0.5	A307606-14	Soil	07/23/03 14:30	07/25/03 15:40
D6-15-0.0-0.5	A307606-15	Soil	07/23/03 15:00	07/25/03 15:40
D6-16-0.0-0.5	A307606-16	Soil	07/23/03 15:30	07/25/03 15:40
D6-17-0.0-0.5	A307606-17	Soil	07/23/03 16:10	07/25/03 15:40
D6-18-0.0-0.5	A307606-18	Soil	07/24/03 09:15	07/25/03 15:40
D6-19-0.0-0.5	A307606-19	Soil	07/24/03 09:35	07/25/03 15:40
D6-20-0.0-0.5	A307606-20	Soil	07/24/03 09:40	07/25/03 15:40
D6-21-0.0-0.5	A307606-21	Soil	07/24/03 10:00	07/25/03 15:40
D6-22-0.0-0.5	A307606-22	Soil	07/24/03 10:20	07/25/03 15:40
D6-23-0.0-0.5	A307606-23	Soil	07/24/03 10:35	07/25/03 15:40
D6-24-0.0-0.5	A307606-24	Soil	07/24/03 10:50	07/25/03 15:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 2 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307606	07/25/2003 15:40	MFGINC	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD BATCH PREPARED ANALYZED DILUTION RESULT PQL NOTE

D6-1-0.0-0.5 (A307606-01)

Sample Type: Soil

Sampled: 07/22/03 09:35

Metals by EPA 6000/7000 Series Methods

Table with 8 columns: Element, Method, Batch, Prepared, Analyzed, Dilution, Result, PQL. Rows for Cadmium, Chromium, Nickel, Lead, Zinc.

Chlorinated Phenols by Canadian Pulp Method

Table with 8 columns: Compound, Method, Batch, Prepared, Analyzed, Dilution, Result, PQL. Rows for 2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol, 2,3,4,6-Tetrachlorophenol, 2,3,4,5-Tetrachlorophenol, Pentachlorophenol.

Surrogate: Tribromophenol 66.1 % 23-140

Conventional Chemistry Parameters by APHA/EPA Methods

Table with 8 columns: Parameter, Method, Batch, Prepared, Analyzed, Dilution, Result, PQL. Rows for Oil & Grease (HEM-SG), Oil & Grease (HEM), pH.

D6-2-0.0-0.5 (A307606-02)

Sample Type: Soil

Sampled: 07/22/03 10:25

Metals by EPA 6000/7000 Series Methods

Table with 8 columns: Element, Method, Batch, Prepared, Analyzed, Dilution, Result, PQL. Rows for Cadmium, Chromium, Nickel, Lead, Zinc.

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Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 4 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-2-0.0-0.5 (A307606-02)		Sample Type: Soil			Sampled: 07/22/03 10:25		
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AG33102	07/28/03	07/29/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
<i>Surrogate: Tribromophenol</i>	"	"	"	"		75.0 %	23-140
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30822	08/05/03	08/08/03	1	6000 mg/kg	50
Oil & Grease (HEM)	"	AH30717	08/05/03	08/07/03	"	12000 "	50
pH	EPA 9045B	AH30614	07/28/03	07/28/03	"	6.4 pH Units	1.0
D6-3-0.0-0.5 (A307606-03)		Sample Type: Soil			Sampled: 07/22/03 11:10		
Metals by EPA 6000/7000 Series Methods							
Cadmium	EPA 6010	AG33003	07/30/03	08/01/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	44 "	5.0
Nickel	"	"	"	"	"	58 "	10
Lead	"	"	"	"	"	37 "	5.0
Zinc	"	"	"	"	"	280 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AG33102	07/28/03	07/29/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
<i>Surrogate: Tribromophenol</i>	"	"	"	"		64.5 %	23-140

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Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 5 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for various chemical parameters like Oil & Grease, pH, Metals, and Chlorinated Phenols across different sample types and dates.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks (handwritten signature)

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 6 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains sections for Metals by EPA 6000/7000 Series Methods, Chlorinated Phenols by Canadian Pulp Method, and Conventional Chemistry Parameters by APHA/EPA Methods.

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Sheri L. Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 7 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Chlorinated Phenols by Canadian Pulp Method, Conventional Chemistry Parameters by APHA/EPA Methods, and Metals by EPA 6000/7000 Series Methods.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 8 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains multiple sections for different sample types (D6-7-0.0-5, D6-8-0.0-5, D6-9-0.0-5) and various chemical parameters like Oil & Grease, pH, Metals, and Chlorinated Phenols.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Handwritten signature: Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 9 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for D6-9-0.0-5 (A307606-09) and D6-10-0.0-5 (A307606-10) including metals and chlorinated phenols.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 10 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307606 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-10-0.0-0.5 (A307606-10)		Sample Type: Soil			Sampled: 07/23/03 10:20		
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AG33102	07/28/03	07/29/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
<i>Surrogate: Tribromophenol</i>	"	"	"	"		87.9 %	23-140
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30822	08/06/03	08/08/03	1	340 mg/kg	50
Oil & Grease (HEM)	"	AH30717	08/05/03	08/07/03	"	1100 "	50
pH	EPA 9045B	AH30614	08/05/03	08/05/03	"	6.6 pH Units	1.0
D6-11-0.0-0.5 (A307606-11)		Sample Type: Soil			Sampled: 07/23/03 10:50		
Metals by EPA 6000/7000 Series Methods							
Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	51 "	5.0
Nickel	"	"	"	"	"	61 "	10
Lead	"	"	"	"	"	12 "	5.0
Zinc	"	"	"	"	"	56 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AG33102	07/28/03	07/29/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
<i>Surrogate: Tribromophenol</i>	"	"	"	"		53.2 %	23-140

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Sheri Speaks

Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 11 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307606 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for D6-11-0.0-0.5 (A307606-11), D6-12-0.0-0.5 (A307606-12), and D6-13-0.0-0.5 (A307606-13) including various chemical parameters like Oil & Grease, pH, and Metals.

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Sheri Speaks

Sheri L. Speaks
Project Manager

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MFG, Inc
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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307606 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-13-0.0-0.5 (A307606-13)		Sample Type: Soil			Sampled: 07/23/03 13:50		
Metals by EPA 6000/7000 Series Methods (cont'd)							
Lead	EPA 6010	"	"	07/31/03	"	15 "	5.0
Zinc	"	"	"	"	"	58 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"	"	75.8 %	23-140
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30822	08/06/03	08/08/03	1	650 mg/kg	50
Oil & Grease (HEM)	"	AH30717	08/05/03	08/07/03	"	1500 "	50
pH	EPA 9045B	AH30614	08/05/03	08/05/03	"	5.8 pH Units	1.0
D6-14-0.0-0.5 (A307606-14)		Sample Type: Soil			Sampled: 07/23/03 14:30		
Metals by EPA 6000/7000 Series Methods							
Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	22 "	5.0
Nickel	"	"	"	"	"	22 "	10
Lead	"	"	"	"	"	18 "	5.0
Zinc	"	"	"	"	"	110 "	10

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Sheri L. Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-14-0.0-0.5 (A307606-14)		Sample Type: Soil			Sampled: 07/23/03 14:30		
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"		70.2 %	23-140
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30822	08/06/03	08/08/03	1	1800 mg/kg	50
Oil & Grease (HEM)	"	AH30717	08/05/03	08/07/03	"	4800 "	50
pH	EPA 9045B	AH30614	08/05/03	08/05/03	"	6.2 pH Units	1.0
D6-15-0.0-0.5 (A307606-15)		Sample Type: Soil			Sampled: 07/23/03 15:00		
Metals by EPA 6000/7000 Series Methods							
Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	17 "	5.0
Nickel	"	"	"	"	"	18 "	10
Lead	"	"	"	"	"	11 "	5.0
Zinc	"	"	"	"	"	110 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"		69.4 %	23-140

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for D6-15-0.0-0.5 (A307606-15) and D6-16-0.0-0.5 (A307606-16) including various chemical parameters like Oil & Grease, pH, and Metals.

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Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606	Receipt Date/Time 07/25/2003 15:40	Client Code MFGINC	Client PO/Reference
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Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-17-0.0-0.5 (A307606-17)		Sample Type: Soil			Sampled: 07/23/03 16:10		
Metals by EPA 6000/7000 Series Methods (cont'd)							
Lead	EPA 6010	"	"	07/31/03	"	12 "	5.0
Zinc	"	"	"	"	"	19 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"	"	72.6 %	23-140

Conventional Chemistry Parameters by APHA/EPA Methods

Oil & Grease (HEM-SG)	EPA 9071B	AH30822	08/06/03	08/08/03	1	320 mg/kg	50
Oil & Grease (HEM)	"	AH30717	08/05/03	08/07/03	"	1200 "	50
pH	EPA 9045B	AH30614	08/05/03	08/05/03	"	5.9 pH Units	1.0

D6-18-0.0-0.5 (A307606-18)

Sample Type: Soil

Sampled: 07/24/03 09:15

Metals by EPA 6000/7000 Series Methods

Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	25 "	5.0
Nickel	"	"	"	"	"	ND "	10
Lead	"	"	"	"	"	5.2 "	5.0
Zinc	"	"	"	"	"	30 "	10

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Chlorinated Phenols, Conventional Chemistry Parameters, and Metals.

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Handwritten signature: Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for three sample types: D6-19-0.0-0.5 (Soil), D6-20-0.0-0.5 (Soil), and D6-21-0.0-0.5 (Soil). Includes sub-sections for Conventional Chemistry Parameters, Metals by EPA 6000/7000 Series Methods, and Chlorinated Phenols by Canadian Pulp Method.

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307606	07/25/2003 15:40	MFGINC	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-21-0.0-0.5 (A307606-21)		Sample Type: Soil			Sampled: 07/24/03 10:00		
Metals by EPA 6000/7000 Series Methods (cont'd)							
Lead	EPA 6010	"	"	07/31/03	"	ND "	5.0
Zinc	"	"	"	"	"	14 "	10
Chlorinated Phenols by Canadian Pulp Method							
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0
Pentachlorophenol	"	"	"	"	"	ND "	1.0
Surrogate: Tribromophenol	"	"	"	"		67.7 %	23-140
Conventional Chemistry Parameters by APHA/EPA Methods							
Oil & Grease (HEM-SG)	EPA 9071B	AH30823	08/06/03	08/08/03	1	180 mg/kg	50
Oil & Grease (HEM)	"	AH30718	08/06/03	08/07/03	"	530 "	50
pH	EPA 9045B	AH30614	08/06/03	08/06/03	"	5.3 pH Units	1.0
D6-22-0.0-0.5 (A307606-22)		Sample Type: Soil			Sampled: 07/24/03 10:20		
Metals by EPA 6000/7000 Series Methods							
Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0
Chromium	"	"	"	"	"	31 "	5.0
Nickel	"	"	"	"	"	28 "	10
Lead	"	"	"	"	"	ND "	5.0
Zinc	"	"	"	"	"	21 "	10

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

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Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for sample D6-22-0.0-0.5 (A307606-22) and D6-23-0.0-0.5 (A307606-23), including Chlorinated Phenols and Metals analysis.

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307606 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-23-0.0-0.5 (A307606-23)			Sample Type: Soil			Sampled: 07/24/03 10:35		
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM-SG)	EPA 9071B	AH30823	08/06/03	08/08/03	1	170 mg/kg	50	
Oil & Grease (HEM)	"	AH30718	08/06/03	08/07/03	"	280 "	50	
pH	EPA 9045B	AH30614	08/06/03	08/06/03	"	5.3 pH Units	1.0	
D6-24-0.0-0.5 (A307606-24)			Sample Type: Soil			Sampled: 07/24/03 10:50		
Metals by EPA 6000/7000 Series Methods								
Cadmium	EPA 6010	AG33004	07/30/03	07/31/03	1	ND mg/kg	1.0	
Chromium	"	"	"	"	"	35 "	5.0	
Nickel	"	"	"	"	"	25 "	10	
Lead	"	"	"	"	"	8.8 "	5.0	
Zinc	"	"	"	"	"	48 "	10	
Chlorinated Phenols by Canadian Pulp Method								
2,4,6-Trichlorophenol	EnvCan	AH30513	07/29/03	07/31/03	1	ND mg/kg	1.0	
2,3,5,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
2,3,4,6-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
2,3,4,5-Tetrachlorophenol	"	"	"	"	"	ND "	1.0	
Pentachlorophenol	"	"	"	"	"	ND "	1.0	
Surrogate: Tribromophenol	"	"	"	"	"	48.4 %	23-140	
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM-SG)	EPA 9071B	AH30823	08/06/03	08/08/03	1	110 mg/kg	50	
Oil & Grease (HEM)	"	AH30718	08/06/03	08/07/03	"	140 "	50	
pH	EPA 9045B	AH30614	08/06/03	08/06/03	"	5.2 pH Units	1.0	

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Metals by EPA 6000/7000 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Blank (AG33003-BLK1), LCS (AG33003-BS1), LCS Dup (AG33003-BSD1), Duplicate (AG33003-DUP1), and Matrix Spike (AG33003-MS1).

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Sheri Speaks

Sheri L. Speaks
Project Manager

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Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Metals by EPA 6000/7000 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AG33003 - EPA 3051 Microwave (Matrix Spike and Matrix Spike Dup) and Batch AG33004 - EPA 3051 Microwave (Blank and LCS).

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Sheri Speaks

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Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307606 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33004 - EPA 3051 Microwave										
LCS Dup (AG33004-BSD1)										
					Prepared: 07/30/03 Analyzed: 07/31/03					
Cadmium	19.8	1.0	mg/kg	20.0		99.0	85-115	1.02	20	
Chromium	20.0	5.0	"	20.0		100	85-115	2.02	20	
Lead	19.9	5.0	"	20.0		99.5	85-115	1.01	20	
Nickel	20.2	10	"	20.0		101	85-115	2.00	20	
Zinc	21.6	10	"	20.0		108	87.1-126	1.40	20	
Duplicate (AG33004-DUP1)										
					Source: A307674-01 Prepared: 07/30/03 Analyzed: 07/31/03					
Cadmium	ND	1.0	mg/kg		ND				20	
Chromium	ND	5.0	"		ND				20	
Lead	ND	5.0	"		ND				20	
Nickel	ND	10	"		ND				20	
Zinc	ND	10	"		ND				20	
Matrix Spike (AG33004-MS1)										
					Source: A307674-01 Prepared: 07/30/03 Analyzed: 07/31/03					
Cadmium	20.6	1.0	mg/kg	20.0	ND	103	70-130			
Chromium	21.1	5.0	"	20.0	ND	100	70-130			
Lead	22.2	5.0	"	20.0	ND	107	70-130			
Nickel	21.3	10	"	20.0	ND	104	70-130			
Zinc	26.1	10	"	20.0	ND	103	70-130			
Matrix Spike Dup (AG33004-MSD1)										
					Source: A307674-01 Prepared: 07/30/03 Analyzed: 07/31/03					
Cadmium	19.8	1.0	mg/kg	20.0	ND	99.0	70-130	3.96	20	
Chromium	20.1	5.0	"	20.0	ND	95.0	70-130	4.85	20	
Lead	21.0	5.0	"	20.0	ND	101	70-130	5.56	20	
Nickel	20.6	10	"	20.0	ND	100	70-130	3.34	20	
Zinc	28.3	10	"	20.0	ND	114	70-130	8.09	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

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208 Mason St. Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

Page 24 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AG33102 (Blank, LCS) and Batch AH30513 (Blank).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 25 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Chlorinated Phenols by Canadian Pulp Method - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30513 - Solvent Extraction, LCS (AH30513-BS1), and LCS Dup (AH30513-BSD1).

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Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 26 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30717 and Batch AH30718 with various test results for Oil & Grease (HEM).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Handwritten signature: Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 27 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AH30718 and Batch AH30822 with various test results for Oil & Grease (HEM).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03



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CHEMICAL EXAMINATION REPORT

Page 28 of 29

MFG, Inc
180 Howard St. Suite 200
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Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307606 Receipt Date/Time 07/25/2003 15:40 Client Code MFGINC Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30823 - General Preparation										
Blank (AH30823-BLK1)				Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	ND	50	mg/kg							
LCS (AH30823-BS1)				Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	1800	50	mg/kg	2000		90.0	80-120			
LCS Dup (AH30823-BSD1)				Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	1700	50	mg/kg	2000		85.0	80-120	5.71	20	
Duplicate (AH30823-DUP1)				Source: A307606-21 Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	185	50	mg/kg		180			2.74	200	
Matrix Spike (AH30823-MS1)				Source: A307606-21 Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	1540	50	mg/kg	1500	180	90.7	80-120			
Matrix Spike Dup (AH30823-MSD1)				Source: A307606-21 Prepared: 08/06/03 Analyzed: 08/08/03						
Oil & Grease (HEM-SG)	1600	50	mg/kg	1500	180	94.7	80-120	3.82	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

8/11/03

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CHEMICAL EXAMINATION REPORT

Page 29 of 29

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 08/11/03 07:56
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307606	07/25/2003 15:40	MFGINC	

Notes and Definitions

- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **42860**

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
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Boulder Office
4900 Pearl East Circle
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Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5950
Tel: (949) 253-2951
Fax: (949) 253-2954

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83873-0030
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Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 1 OF: 3
 SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Conti DATE: 7/25/03
 METHOD OF SHIPMENT: courier CARRIER/WAYBILL NO: NA DESTINATION: Alpha

SAMPLES				ANALYSIS REQUEST						Remarks							
				Containers		Constituents/Method		Handling									
Field Sample Identification	Sample		Preservation		Filtration*		VOLUME (ml/oz)	TYPE	NO.	Wear Masks	PH	Total O/G	Chlor Phos	HOLD	RUSH	STANDARD	
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD											Matrix*
D6-1-0.0-0.5	7/22	0935	So			X	U	6"SI	1	X	X	X	X	X	X	X	A3076000-1
D6-2-0.0-0.5		1025	So			X	U	6"SI	1	X	X	X	X	X	X	X	-a
D6-3-0.0-0.5		1110	So			X	U	6"SI	1	X	X	X	X	X	X	X	-3
D6-4-0.0-0.5*		1145	So			X	U	6"SI	1	X	X	X	X	X	X	X	-4
D6-5-0.0-0.5		1500	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-5
D6-6-0.0-0.5		1530	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-6
D6-7-0.0-0.5	↓	1605	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-7
D6-8-0.0-0.5	7/23	0900	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-8
D6-9-0.0-0.5	↓	0950	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-9
D6-10-0.0-0.5	↓	1020	So			X	U	6"SI	1	X	X	X	X	X	X	X	REC-10

Add SET-ITEM (96)
 to all samples
 per Curio JW 7.30.03
 5AM

AUG 13 2003
MFG, Inc.

Laboratory Comments/Condition of Samples
Cooler Temp:

RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<i>John Mills</i>	John Mills	MFG	<i>J. Matthews</i>	J. Matthews	Alpha Laboratory
<i>J. Matthews</i>	Jack Matthews	Alpha	<i>S. Spinks</i>	S. Spinks	Alpha Laboratory

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other
 CONTAINERS: P - plastic G - glass T - teflon B - brass OT - other
 DISTRIBUTION: PINK: Laboratory Copy YELLOW: Laboratory Copy WHITE: Return to Originator
 6"SI = 6" STEEL LITER

* LABEL SAID D6-3-0.0-0.5 WENT BY TIME.

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

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Arcata Office
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 83873-0030
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 Tel: (425) 921-4000
 Fax: (425) 921-4040

Seattle Office
 19209 36th Avenue W.
 Suite 101
 Lynnwood, WA 98036-5707
 Tel: (425) 921-4000
 Fax: (425) 921-4040

PROJECT NO: 03D229.4 PROJECT NAME: Sierra Pacific PAGE: 2 OF: 3
 SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Conti DATE: 7/25/03
 METHOD OF SHIPMENT: CARRIER CARRIER/WAYBILL NO.: NA DESTINATION: Alpha

SAMPLES				ANALYSIS REQUEST											
Field Sample Identification	DATE	TIME	Matrix*	Preservation			Containers	Constituents/Method	Handling		Remarks				
				HCl	HNO ₃	H ₂ SO ₄			COLD	FILTRATION*		VOLUME (ml/oz)	TYPE*	NO.	HOLD
D6-11-0.0-0.5	7/23	1050	Sb		X	X	X	U	6"Sl	B	1	X	X	X	A3076006-11
D6-12-0.0-0.5		1110	Sb		X	X	X	U	6"Sl	B	1	X	X	X	12
D6-13-0.0-0.5		1350	Sb		X	X	X	U	6"Sl	B	1	X	X	X	13
D6-14-0.0-0.5		1430	Sb		X	X	X	U	6"Sl	B	1	X	X	X	14
D6-15-0.0-0.5		1500	Sb		X	X	X	U	6"Sl	B	1	X	X	X	15
D6-16-0.0-0.5		1530	Sb		X	X	X	U	6"Sl	B	1	X	X	X	16
D6-17-0.0-0.5		1610	Sb		X	X	X	U	6"Sl	B	1	X	X	X	17
D6-18-0.0-0.5	7/24	0915	Sb		X	X	X	U	6"Sl	B	1	X	X	X	18
D6-19-0.0-0.5		0935	Sb		X	X	X	U	6"Sl	B	1	X	X	X	19
D6-20-0.0-0.5		0940	Sb		X	X	X	U	6"Sl	B	1	X	X	X	20

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 AUG 13 2003
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RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME
<i>John Mills</i>	John Mills	<i>J. Matthews</i>	J. Matthews
<i>Jack Matthews</i>	Jack Matthews	<i>S. Speaks</i>	S. Speaks

TOTAL NUMBER OF CONTAINERS: 24 COOLER TEMP: _____
 LABORATORY COMMENTS/CONDITION OF SAMPLES: _____
 COMPANY: _____
 DATE: _____
 TIME: _____
 SIGNATURE: _____
 PRINTED NAME: _____
 COMPANY: _____

*KEY Matrix: AO - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other
 Containers: P - plastic G - glass T - teflon B - brass OT - other
 Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK Field Copy YELLOW Laboratory Copy WHITE Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 42862

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Tel: (707) 826-8430
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Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
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Irvine, CA 92614-5850
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Fax: (949) 253-2954

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83873-0030
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Fax: (208) 556-7271

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Phone: (415) 495-7110-FAX (415) 495-7107

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Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 03D229.4 PROJECT NAME: Sierra Pacific PAGE: 3 OF: 3

SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Conti DATE: 7/25/03

METHOD OF SHIPMENT: CARRIER CARRIERWAYBILL NO.: N/A DESTINATION: Alpha

SAMPLES

Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks			
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	Major Metals	Total Ppm's	Other Ppm's		HOLD	RUSH	STANDARD
D6-21-0.0-0.5	7/24	1000 Su			X	u	6"sl	B	1	X	X	X			X	A307606-21
D6-22-0.0-0.5		1020 Sb			X	u	6"sl	B	1	X	X	X			X	22
D6-23-0.0-0.5		1035 Sb			X	u	6"sl	B	1	X	X	X			X	23
D6-24-0.0-0.5		1050 Sb			X	u	6"sl	B	1	X	X	X			X	24
Temp Blank A																
Temp Blank B																
Temp Blank C																
Temp Blank D																
RECEIVED																
AUG 13 2003																
MFG, Inc.																

TOTAL NUMBER OF CONTAINERS: (24) LABORATORY COMMENTS/CONDITION OF SAMPLES: Cooler Temp: _____

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME
<u>John Mills</u>	<u>John Mills</u>	<u>J. Matthews</u>	<u>J. Matthews</u>
<u>Jack Matthews</u>	<u>Jack Matthews</u>	<u>B. Speaks</u>	<u>B. Speaks</u>
	<u>Alpha</u>		<u>Alpha</u>

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
DISTRIBUTION: PINK - Field Copy YELLOW - Laboratory Copy WHITE - Return to Originator

APPENDIX E

**Laboratory Reports, including Chromatograms, and Chain of Custody Records
for Groundwater Samples and the Surface Water Sample from the Retention Pond**



Alpha

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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15 October 2003

MFG, Inc

Attn: Ed Conti

180 Howard St. Suite 200

San Francisco, CA 94105-2941

RE: SPI-Arcata/Task #4

Work Order: A307306

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OCT 22 2003

MFG, Inc.

Enclosed are the results of analyses for samples received by the laboratory on 07/10/03 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks
Project Manager

This represents an amended copy
of the original report



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OCT 22 2003

MFG, Inc.

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 1 of 17

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307306 07/10/2003 17:45 MFGINC

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RP-1-GW	A307306-01	Water	07/08/03 13:15	07/10/03 17:45
RP-2-GW	A307306-02	Water	07/08/03 16:13	07/10/03 17:45
SDP-1-GW	A307306-03	Water	07/09/03 09:45	07/10/03 17:45
D7-1-GW	A307306-04	Water	07/09/03 10:50	07/10/03 17:45
D7-2-GW	A307306-05	Water	07/09/03 11:15	07/10/03 17:45
D7-3-GW	A307306-06	Water	07/09/03 13:00	07/10/03 17:45
D7-4-GW	A307306-07	Water	07/09/03 15:00	07/10/03 17:45
D7-5-GW	A307306-08	Water	07/09/03 15:25	07/10/03 17:45
D7-6-GW	A307306-09	Water	07/09/03 15:50	07/10/03 17:45
D7-7-GW	A307306-10	Water	07/09/03 17:00	07/10/03 17:45
D7-8-GW	A307306-11	Water	07/09/03 17:45	07/10/03 17:45
D7-9-GW	A307306-12	Water	07/10/03 08:55	07/10/03 17:45
D7-10-GW	A307306-13	Water	07/10/03 09:25	07/10/03 17:45
D7-11-GW	A307306-14	Water	07/10/03 09:45	07/10/03 17:45
D7-12-GW	A307306-15	Water	07/10/03 10:10	07/10/03 17:45
D7-13-GW	A307306-16	Water	07/10/03 10:25	07/10/03 17:45
D7-14-GW	A307306-17	Water	07/10/03 11:00	07/10/03 17:45
D7-15-GW	A307306-18	Water	07/10/03 11:20	07/10/03 17:45
D7-16-GW	A307306-19	Water	07/10/03 11:45	07/10/03 17:45
D7-17-GW	A307306-20	Water	07/10/03 12:00	07/10/03 17:45

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

10/15/03



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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307306	07/10/2003 17:45	MFGINC	

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Sheri Speaks

Sheri L. Speaks
Project Manager

10/15/03



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Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307306 07/10/2003 17:45 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
RP-1-GW (A307306-01)		Sample Type: Water			Sampled: 07/08/03 13:15		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1.0417	170 ug/l	52 D-09
TPH as Motor Oil	"	"	"	"	"	1100 "	100
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		60.0 %	14-116
RP-2-GW (A307306-02)		Sample Type: Water			Sampled: 07/08/03 16:13		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1	ND ug/l	50
TPH as Motor Oil	"	"	"	"	"	ND "	100
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		46.6 %	14-116
SDP-1-GW (A307306-03)		Sample Type: Water			Sampled: 07/09/03 09:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Report Date: 10/15/03 07:58
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Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307306 07/10/2003 17:45 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SDP-1-GW (A307306-03)		Sample Type: Water			Sampled: 07/09/03 09:45		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1.1299	300 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	890 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		62.4 %	14-116
D7-1-GW (A307306-04)		Sample Type: Water			Sampled: 07/09/03 10:50		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1.087	ND ug/l	54
TPH as Motor Oil	"	"	"	"	"	170 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		69.8 %	14-116
D7-2-GW (A307306-05)		Sample Type: Water			Sampled: 07/09/03 11:15		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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A307306 07/10/2003 17:45 MFGINC

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METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-2-GW (A307306-05)		Sample Type: Water			Sampled: 07/09/03 11:15		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1.1299	85 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	240 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		68.1 %	14-116
D7-3-GW (A307306-06)		Sample Type: Water			Sampled: 07/09/03 13:00		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31619	07/16/03	07/17/03	1	ND ug/l	50
TPH as Motor Oil	"	"	"	"	"	ND "	100
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		69.2 %	14-116
D7-4-GW (A307306-07)		Sample Type: Water			Sampled: 07/09/03 15:00		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-4-GW (A307306-07)		Sample Type: Water			Sampled: 07/09/03 15:00		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.111	67 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	280 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		62.4 %	14-116
D7-5-GW (A307306-08)		Sample Type: Water			Sampled: 07/09/03 15:25		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.149	560 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	4100 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		60.2 %	14-116
D7-6-GW (A307306-09)		Sample Type: Water			Sampled: 07/09/03 15:50		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Project Manager

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A307306 07/10/2003 17:45 MFGINC

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METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-6-GW (A307306-09)		Sample Type: Water			Sampled: 07/09/03 15:50		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.0309	70 ug/l	52 D-09
TPH as Motor Oil	"	"	"	"	"	380 "	100
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		53.1 %	14-116
D7-7-GW (A307306-10)		Sample Type: Water			Sampled: 07/09/03 17:00		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.124	ND ug/l	56 R-02
TPH as Motor Oil	"	"	"	"	"	ND "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		75.6 %	14-116
D7-8-GW (A307306-11)		Sample Type: Water			Sampled: 07/09/03 17:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Project Manager

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Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-8-GW (A307306-11)		Sample Type: Water			Sampled: 07/09/03 17:45		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.149	240 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	1500 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		14.5 %	14-116
D7-9-GW (A307306-12)		Sample Type: Water			Sampled: 07/10/03 08:55		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31724	07/17/03	07/18/03	1.149	300 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	1600 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		35.2 %	14-116
D7-10-GW (A307306-13)		Sample Type: Water			Sampled: 07/10/03 09:25		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	0.20 "	0.10

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Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-10-GW (A307306-13)		Sample Type: Water			Sampled: 07/10/03 09:25		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/18/03	1.117	220 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	1500 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		56.9 %	14-116
D7-11-GW (A307306-14)		Sample Type: Water			Sampled: 07/10/03 09:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/23/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/18/03	1.111	190 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	1500 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		57.4 %	14-116
D7-12-GW (A307306-15)		Sample Type: Water			Sampled: 07/10/03 10:10		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/24/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-12-GW (A307306-15)		Sample Type: Water			Sampled: 07/10/03 10:10		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/18/03	1.075	140 ug/l	54 D-09
TPH as Motor Oil	"	"	"	"	"	810 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		67.6 %	14-116
D7-13-GW (A307306-16)		Sample Type: Water			Sampled: 07/10/03 10:25		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/24/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/18/03	1.124	310 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	1700 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		56.9 %	14-116
D7-14-GW (A307306-17)		Sample Type: Water			Sampled: 07/10/03 11:00		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/24/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains three main sections: D7-14-GW (A307306-17), D7-15-GW (A307306-18), and D7-16-GW (A307306-19). Each section lists various chemical tests and their results.

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San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307306 07/10/2003 17:45 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D7-16-GW (A307306-19)		Sample Type: Water			Sampled: 07/10/03 11:45		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/19/03	1.149	880 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	4400 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		44.2 %	14-116
D7-17-GW (A307306-20)		Sample Type: Water			Sampled: 07/10/03 12:00		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG31513	07/15/03	07/24/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG31808	07/18/03	07/19/03	1.124	380 ug/l	56 D-09
TPH as Motor Oil	"	"	"	"	"	2100 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		46.5 %	14-116

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

10/15/03



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MFG, Inc.

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 13 of 17

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307306 Receipt Date/Time 07/10/2003 17:45 Client Code MFGINC Client PO/Reference

SourceResult

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AG31513 - EPA 200 Series, Blank (AG31513-BLK1), LCS (AG31513-BS1), LCS Dup (AG31513-BSD1), Duplicate (AG31513-DUP1), and Matrix Spike (AG31513-MS1).

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Sheri Speaks

Sheri L. Speaks
Project Manager

10/15/03



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Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307306 Receipt Date/Time 07/10/2003 17:45 Client Code MFGINC Client PO/Reference

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG31513 - EPA 200 Series										
Matrix Spike (AG31513-MS1)		Source: A307306-01		Prepared: 07/15/03		Analyzed: 07/23/03				
Cadmium, dissolved	0.210	0.010	mg/l	0.200	ND	105	70-130			
Chromium, dissolved	0.215	0.050	"	0.200	ND	108	70-130			
Lead, dissolved	0.212	0.050	"	0.200	ND	106	70-130			
Nickel, dissolved	0.239	0.10	"	0.200	ND	104	70-130			
Zinc, dissolved	0.234	0.10	"	0.200	ND	108	70-130			
Matrix Spike Dup (AG31513-MSD1)		Source: A307306-01		Prepared: 07/15/03		Analyzed: 07/23/03				
Cadmium, dissolved	0.208	0.010	mg/l	0.200	ND	104	70-130	0.957	20	
Chromium, dissolved	0.215	0.050	"	0.200	ND	108	70-130	0.00	20	
Lead, dissolved	0.208	0.050	"	0.200	ND	104	70-130	1.90	20	
Nickel, dissolved	0.239	0.10	"	0.200	ND	104	70-130	0.00	20	
Zinc, dissolved	0.238	0.10	"	0.200	ND	110	70-130	1.69	20	

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Project Manager

10/15/03



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Project ID: SPI-Arcata/Task #4

Order Number A307306 Receipt Date/Time 07/10/2003 17:45 Client Code MFGINC Client PO/Reference

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG31619 - EPA 3510B Water										
Blank (AG31619-BLK1) Prepared: 07/16/03 Analyzed: 07/17/03										
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	420		"	620		67.7	14-116			
LCS (AG31619-BS1) Prepared: 07/16/03 Analyzed: 07/17/03										
TPH as Diesel	1660	50	ug/l	2090		79.4	57-136			
TPH as Motor Oil	2100	100	"	2090		100	58-138			
Surrogate: 1,4-Bromofluorobenzene	358		"	620		57.7	14-116			
LCS Dup (AG31619-BSD1) Prepared: 07/16/03 Analyzed: 07/17/03										
TPH as Diesel	1540	50	ug/l	2090		73.7	57-136	7.50	25	
TPH as Motor Oil	1970	100	"	2090		94.3	58-138	6.39	25	
Surrogate: 1,4-Bromofluorobenzene	304		"	620		49.0	14-116			
Batch AG31724 - EPA 3510B Water										
Blank (AG31724-BLK1) Prepared & Analyzed: 07/17/03										
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	439		"	620		70.8	14-116			
LCS (AG31724-BS1) Prepared & Analyzed: 07/17/03										
TPH as Diesel	1890	50	ug/l	2090		90.4	57-136			
TPH as Motor Oil	2080	100	"	2090		99.5	58-138			
Surrogate: 1,4-Bromofluorobenzene	477		"	620		76.9	14-116			
LCS Dup (AG31724-BSD1) Prepared & Analyzed: 07/17/03										
TPH as Diesel	1930	50	ug/l	2090		92.3	57-136	2.09	25	

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Sheri Speaks

Sheri L. Speaks
Project Manager

10/15/03



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Page 16 of 17

MFG, Inc
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Attn: Ed Conti

Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number A307306 Receipt Date/Time 07/10/2003 17:45 Client Code MFGINC Client PO/Reference

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Contains data for Batch AG31724, Batch AG31808, and LCS Dup (AG31808-BS1).

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Sheri Speaks

Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

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Report Date: 10/15/03 07:58
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307306	07/10/2003 17:45	MFGINC	

Notes and Definitions

- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R-02 Elevated Reporting Limits due to limited sample volume.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43132**

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

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180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107

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Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

Boulder Office
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Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 1 OF: 4
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed. Conti DATE: 7/11/03
 METHOD OF SHIPMENT: Courier CARRIERWAYBILL NO: N/A DESTINATION: Alpha

SAMPLES				ANALYSIS REQUEST				REMARKS							
Field Sample Identification	Sample		Preservation		Containers		Constituents/Method								
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TPEP Dissolved Metals	HOLD	RUSH	STANDARD
RP-1-GW	7/8/03	13:15	AQ				X	N	1L	G	1	X			A307306-1
RP-1-GW		13:15	AQ		X		X	F	1L	G	1	X			-2
RP-2-GW		16:13	AQ				X	U	1L	G	1	X			-3
RP-2-GW		16:13	AQ		X		X	F	1L	G	1	X			-4
SDP-1-GW	7/9/03	7:45	AQ				X	U	1L	G	1	X			5
SDP-1-GW		9:45	AQ		X		X	F	1L	G	1	X			
D7-1-GW		10:50	AQ				X	U	1L	G	1	X			
D7-1-GW		10:50	AQ		X		X	F	1L	G	1	X			
D7-2-GW		11:15	AQ				X	U	1L	G	1	X			
D7-2-GW		11:15	AQ		X		X	F	1L	G	1	X			

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Cooler Temp:

LABORATORY COMMENTS/CONDITION OF SAMPLES

TOTAL NUMBER OF CONTAINERS **(40)**

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME
<u>[Signature]</u>	Christopher Spill	<u>[Signature]</u>	D. Matthews
<u>[Signature]</u>	D. Matthews	<u>[Signature]</u>	S. Specks
	MFG-SF		Alpha
	Alpha		Alpha
			LABORATORY

*KEY: Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other
 Containers: P - plastic G - glass T - teflon B - brass OT - other
 Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43133

Seattle Office
19203 36th Avenue W.
Suite 101
Lynden, WA 98036-5707
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Fax: (425) 921-4040

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Fax: (208) 556-7271

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Fax: (949) 253-2954

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Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Arcata Office
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Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 2 OF: 4
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 7/10/03
 METHOD OF SHIPMENT: Courier CARRIERWAYBILL NO: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST						
Field Sample Identification	Sample		Preservation			Containers		Constituents/Method		Handling		Remarks				
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TEPH disc#		Wet Metals	DISINTEGRATED	RUSH	STANDARD
D7-3-GW	7/9/03	13:00	AG			X					X				X	A307306-6
D7-3-GW		13:00	AG	X		X					X				X	
D7-4-GW		15:00	AG	X		X					X				X	7
D7-4-GW		15:00	AG	X		X					X				X	
D7-5-GW		15:25	AG			X					X				X	8
D7-5-GW		15:25	AG	X		X					X				X	9
D7-6-GW		15:50	AG	X		X					X				X	
D7-6-GW		15:50	AG	X		X					X				X	
D7-7-GW		17:00	AG			X					X				X	10
D7-7-GW		17:00	AG	X		X					X				X	

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RELINQUISHED BY:				RECEIVED BY:			
SIGNATURE	PRINTED NAME	COMPANY	DATE	SIGNATURE	PRINTED NAME	COMPANY	COOLER TEMP:
<u>[Signature]</u>	Christopher Spill	MFG-SF	7/10/03	<u>[Signature]</u>	J. Matthews	Alpha	
<u>[Signature]</u>	J. Matthews	Alpha	7/10/03	<u>[Signature]</u>	S. Speaks	Alpha	

TOTAL NUMBER OF CONTAINERS: (40) LABORATORY COMMENTS/CONDITION OF SAMPLES: Cooler Temp: _____
 *KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air DT - other Containers: P - plastic G - glass F - fiber B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK - Field Copy YELLOW - Laboratory Copy WHITE - Return to Originator

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CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **43134**

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 Wallace, ID
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Seattle Office
 19203 36th Avenue W.
 Suite 101
 Lynnwood, WA 98036-5707
 Tel: (425) 921-4000
 Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Sierra Pacific PAGE: 3 OF: 4
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 7/10/03
 METHOD OF SHIPMENT: Carrier CARRIERWAYBILL NO: NA DESTINATION: Alpha

SAMPLES				ANALYSIS REQUEST				REMARKS							
Field Sample Identification	Sample		Preservation		Containers		Constituents/Method								
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO	HOLD	RUSH	STANDARD	
D7-8-GW	7/9/03	17:45	AQ				X	V	1L	G	1			X	<div style="text-align: center;"> <p>RECEIVED</p> <p>JUL 30 2003</p> <p>MFG, Inc.</p> </div>
D7-8-GW	↓	17:45	AQ		X		X	F	1L	G	1			X	
D7-9-GW	7/10/03	8:55	AQ				X	V	1L	G	1			X	
D7-9-GW	↓	8:55	AQ		X		X	F	1L	G	1			X	
D7-10-GW	↓	9:25	AQ		X		X	V	1L	G	1			X	
D7-10-GW	↓	9:25	AQ		X		X	F	1L	G	1			X	
D7-11-GW	↓	9:45	AQ		X		X	V	1L	G	1			X	
D7-11-GW	↓	9:45	AQ		X		X	F	1L	G	1			X	
D7-12-GW	↓	10:10	AQ		X		X	V	1L	G	1			X	
D7-12-GW	↓	10:10	AQ		X		X	F	1L	G	1			X	

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME
[Signature]	Christopher Spill	[Signature]	J. Mantoux
	MFG-SF		B. Speaks
	Alpha		Alpha
			LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

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 San Francisco Office 180 Howard Street, Suite 200, San Francisco, CA 94105-1617 Phone: (415) 495-7110 - Fax: (415) 495-7107

PROJECT NO: 030219.4 PROJECT NAME: Sierra Pacific PAGE: 4 OF: 4
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ed Conti DATE: 7/10/03
 METHOD OF SHIPMENT: Courier CARRIER/WAYBILL NO: NA DESTINATION: Alpha

ANALYSIS REQUEST													
Field Sample Identification	Sample			Preservation			Containers			Remarks			
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)		TYPE	NO.	
D7-13-6W	7/10/03	10:25	AQ				X	V	1L	G	1	HOLD RUSH STANDARD	A307300-16
D7-13-6W		10:25	AQ		X		X	F	1L	G	1		
D7-14-6W		11:00	AQ		X		X	V	1L	G	1		
D7-14-6W		11:00	AQ		X		X	F	1L	G	1		
D7-15-6W		11:20	AQ		X		X	V	1L	G	1		
D7-15-6W		11:20	AQ		X		X	F	1L	G	1		
D7-16-6W		11:45	AQ				X	V	1L	G	1		
D7-16-6W		11:45	AQ		X		X	F	1L	G	1		
D7-17-6W		12:00	AQ		X		X	V	1L	G	1		
D7-17-6W		12:00	AQ		X		X	F	1L	G	1		
TOTAL NUMBER OF CONTAINERS										(40)		Cooler Temp:	

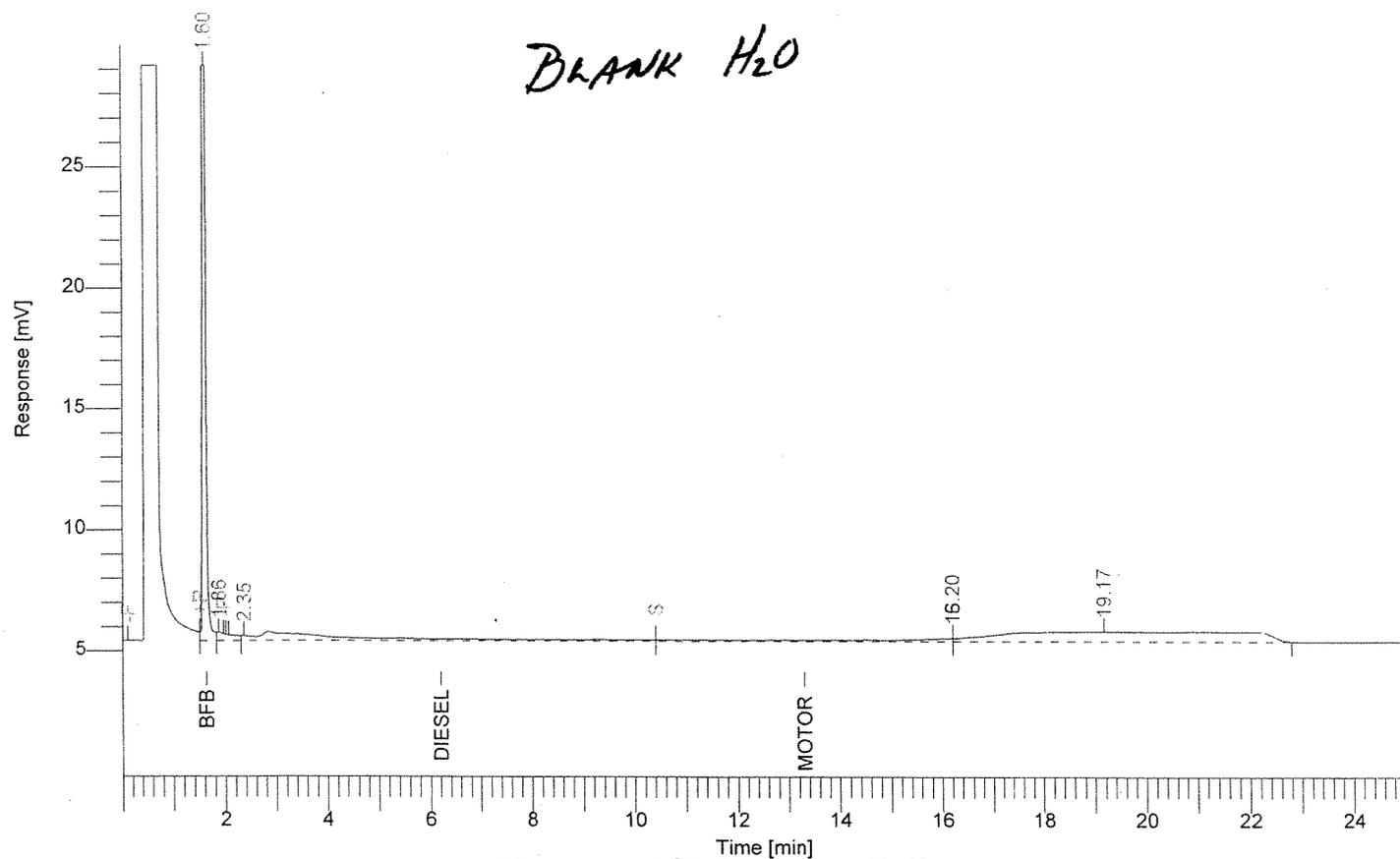
RELINQUISHED BY:				RECEIVED BY:			
SIGNATURE	PRINTED NAME	COMPANY	DATE	SIGNATURE	PRINTED NAME	COMPANY	DATE
<u>[Signature]</u>	Christopher Spill	MFG-SF	7/10/03	<u>[Signature]</u>	J. Matthews	Alpha	1:25
<u>[Signature]</u>	J. Matthews	Alpha	7/10/03	<u>[Signature]</u>	S. Speaks	Alpha	15:45
						Alpha	17:45

*KEY Matrix: AQ - aqueous MA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK - Field Copy YELLOW - Laboratory Copy WHITE - Return to Originator

Software Version : 6.1.2.0.1:D19
 Sample Name : AG31808-BLK1
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 3

Date : 7/18/03 7:14:11 PM
 Data Acquisition Time : 7/18/03 6:48:53 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT387.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	6.849	152436	40189
2	1.86		0.007	6821	337
3	2.35	Diesel	0.371	46480	195
4	16.20	Motor Oil	-0.174	17765	116
5	19.17		0.133	133287	399
			7.187	356788	41236

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT387.TX0

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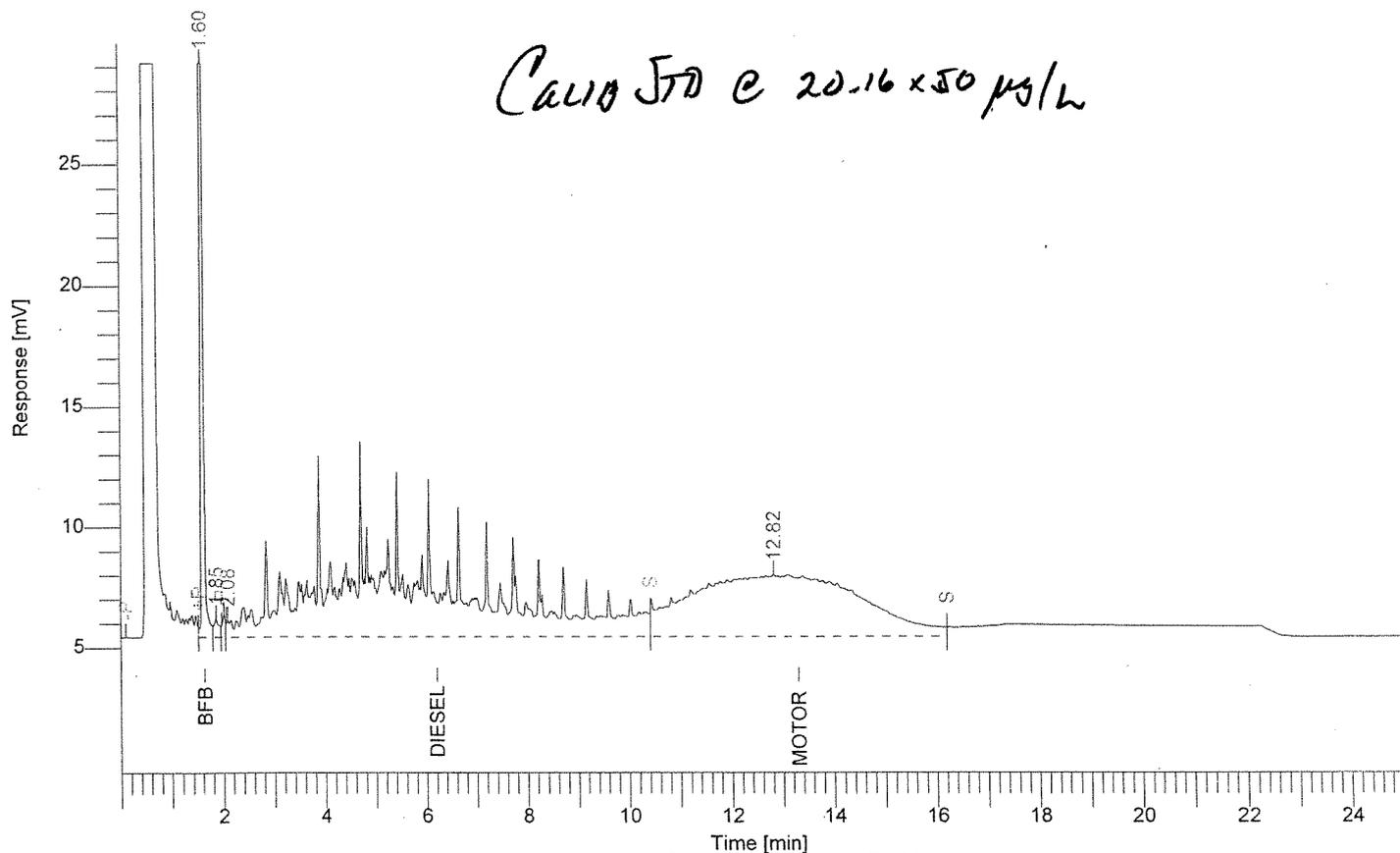
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : DM 20.16
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 2

Date : 7/18/03 6:33:41 PM
 Data Acquisition Time : 7/18/03 6:08:22 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT386.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	7.308	162894	48716
2	1.85		0.005	5433	725
3	2.08	Diesel	18.664	790478	666
4	12.82	Motor Oil	19.867	595110	2564
			45.844	1553915	52670

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT386.TX0

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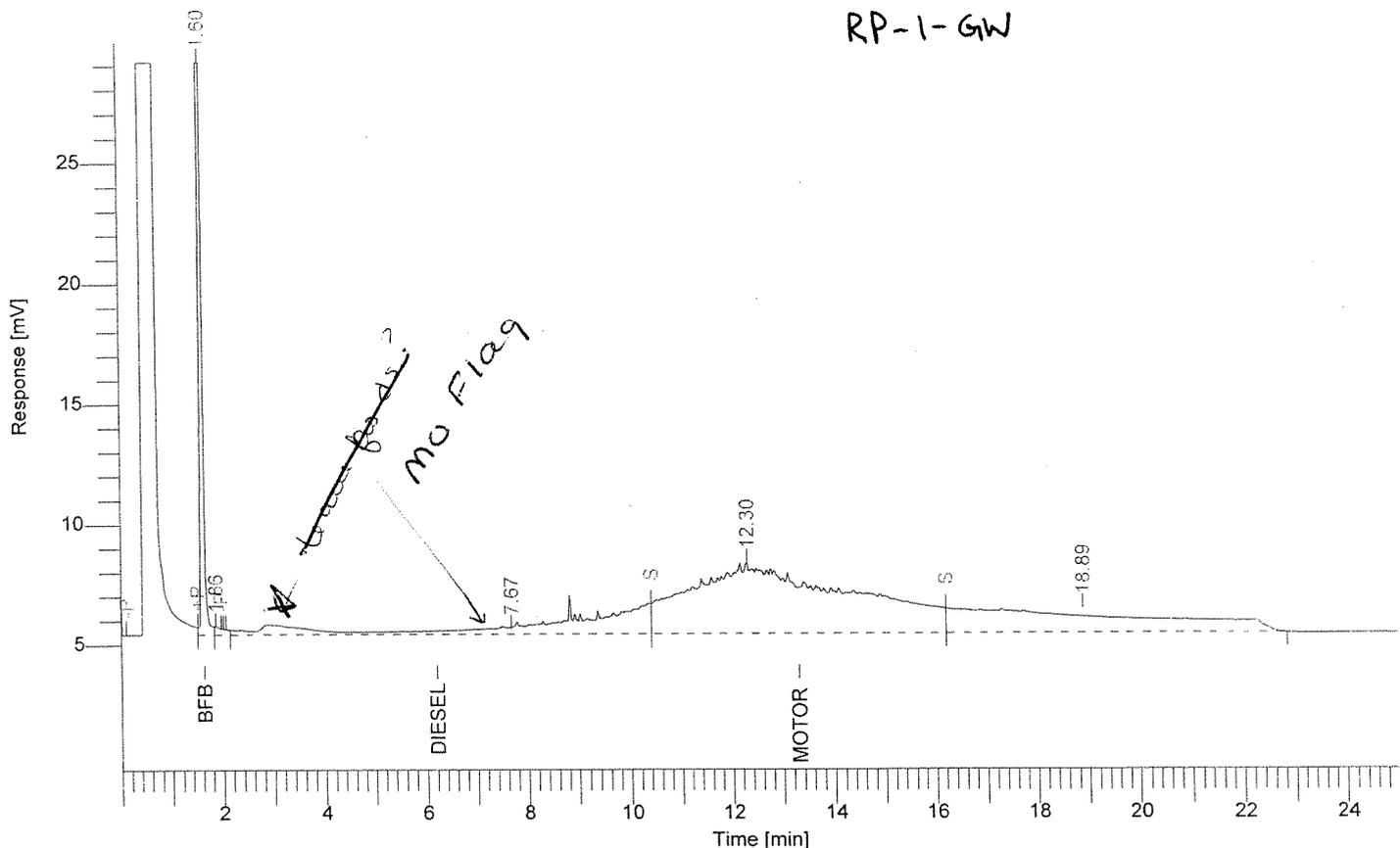
MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-01
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 6

Date : 7/17/03 12:10:33 PM
 Data Acquisition Time : 7/17/03 11:45:27 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT360.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq

RP-1-GW



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	7.449	166114	48400
2	1.86		0.005	4804	345
3	7.67	Diesel	3.314	166465	286
4	12.30	Motor Oil	21.237	634262	2946
5	18.89		0.253	253398	668
			32.258	1225044	52645

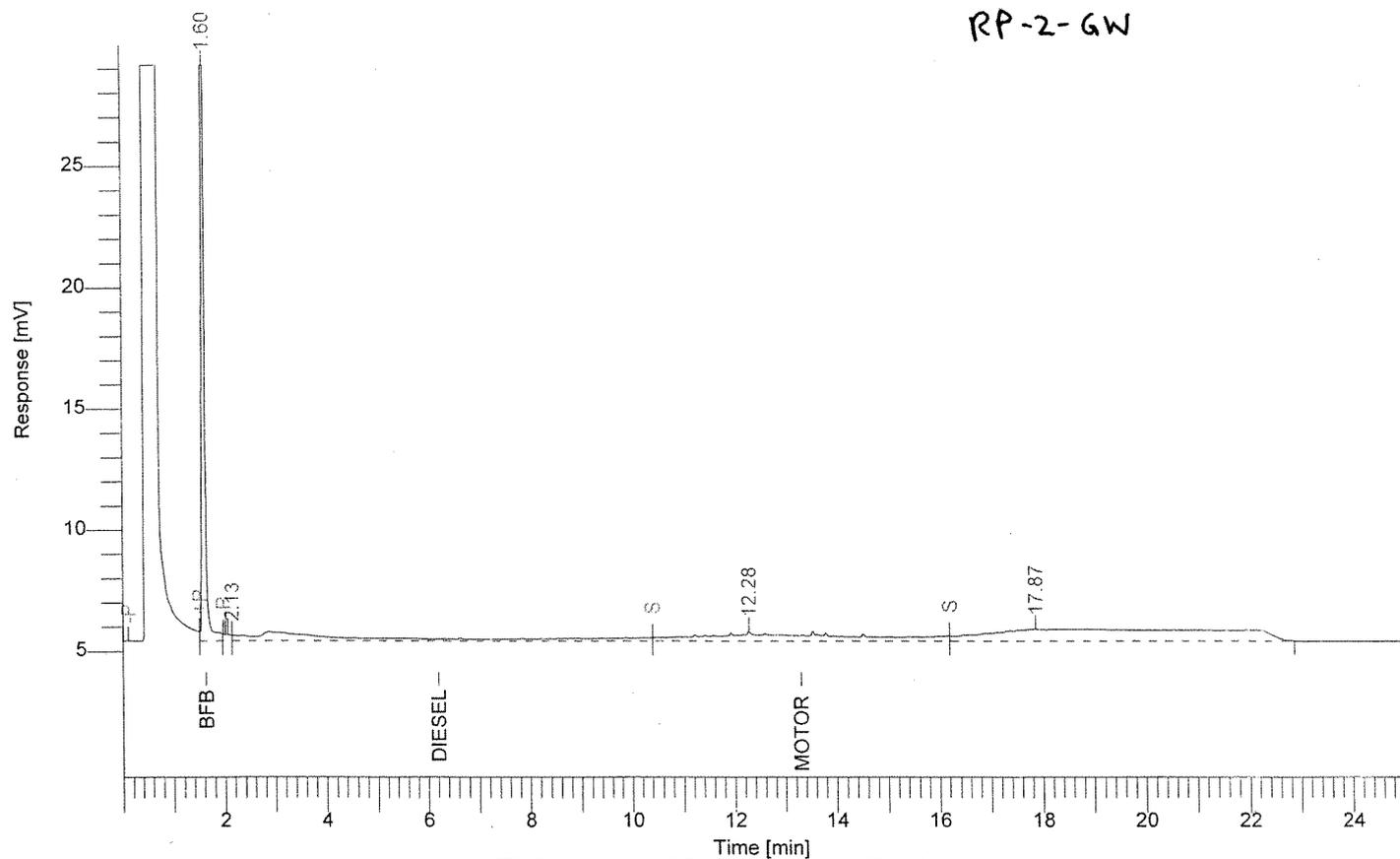
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT360.TX0

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 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-02
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 7

Date : 7/17/03 12:51:05 PM
 Data Acquisition Time : 7/17/03 12:25:56 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT361.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	5.779	128186	34989
2	2.13	Diesel	0.753	62044	226
3	12.28	Motor Oil	1.561	68095	413
4	17.87		0.158	158125	493
			8.251	416449	36121

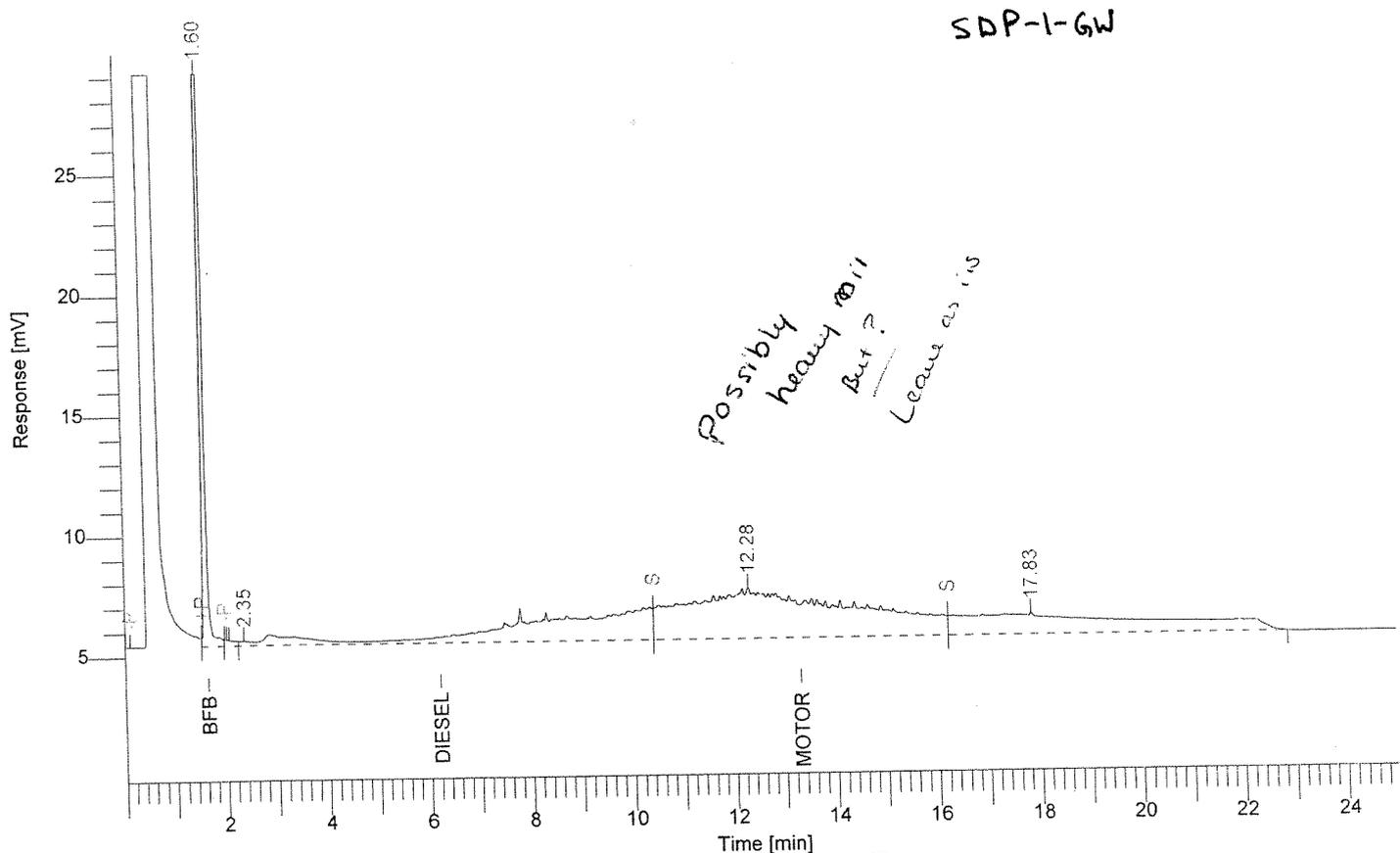
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT361.TX0

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 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-03
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 8

Date : 7/17/03 1:31:38 PM
 Data Acquisition Time : 7/17/03 1:06:28 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT362.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	7.741	172796	47202
2	2.35	Diesel	5.245	245144	204
3	12.28	Motor Oil	15.769	477748	2100
4	17.83		0.230	229770	858
			28.984	1125458	50364

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT362.TX0

RECEIVED

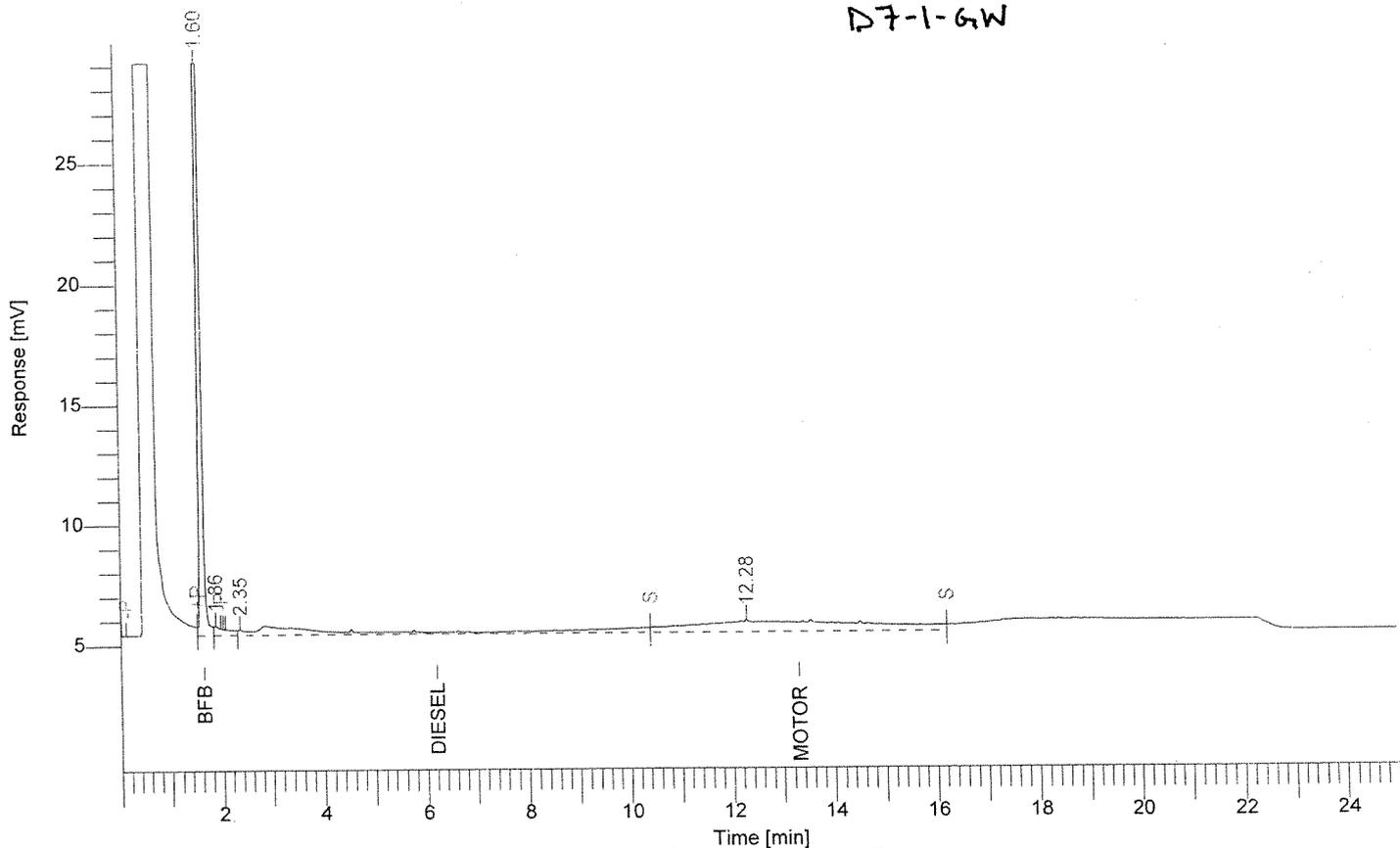
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-04
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 9

Date : 7/17/03 2:12:05 PM
 Data Acquisition Time : 7/17/03 1:46:57 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT363.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	8.654	193788	55932
2	1.86		0.008	7579	389
3	2.35	Diesel	0.780	63149	225
4	12.28	Motor Oil	3.135	113692	519
			12.577	378207	57065

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT363.TX0

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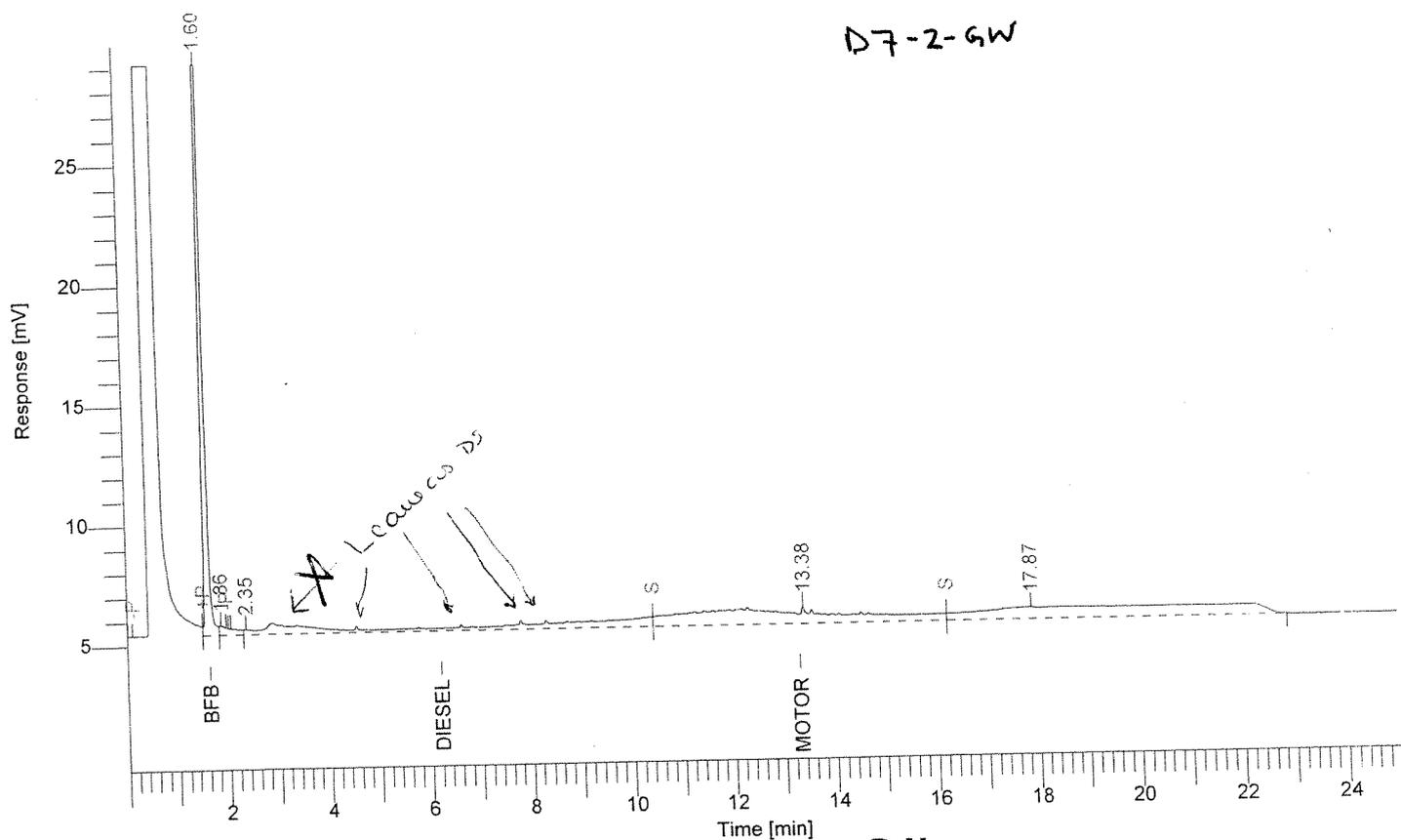
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-05
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 10

Date : 7/17/03 2:52:52 PM
 Data Acquisition Time : 7/17/03 2:27:31 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT364.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	8.446	188995	56053
2	1.86		0.008	7820	395
3	2.35	Diesel	1.511	92976	221
4	13.38	Motor Oil	4.262	146307	721
5	17.87		0.158	158016	493
			14.385	594114	57883

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT364.TX0

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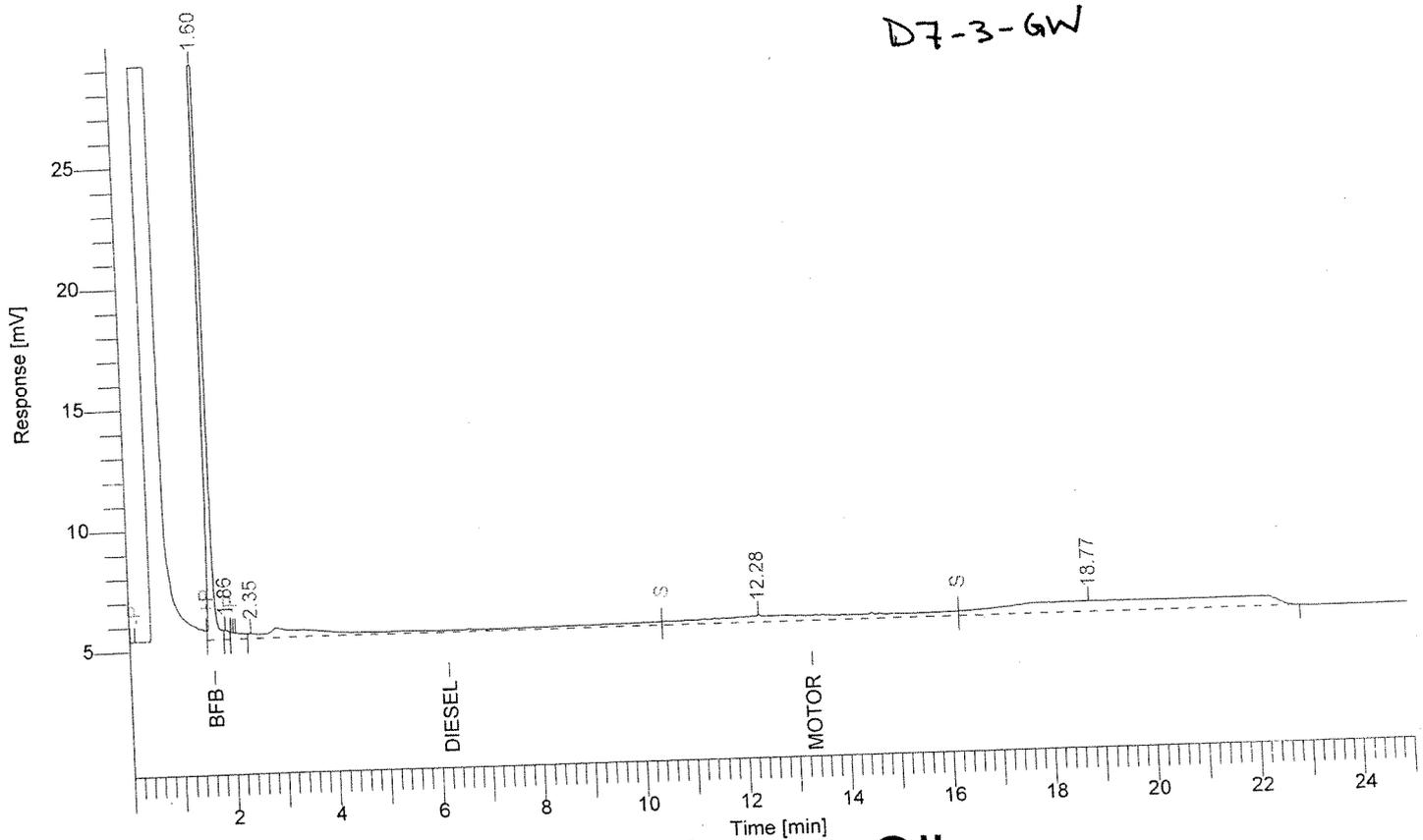
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-06
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11

Date : 7/17/03 3:33:34 PM
 Data Acquisition Time : 7/17/03 3:08:05 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT365.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	8.581	192113	55655
2	1.86		0.003	2671	393
3	2.35	Diesel	0.680	59069	216
4	12.28	Motor Oil	1.471	65480	300
5	18.77		0.144	144419	435
			10.879	463751	56999

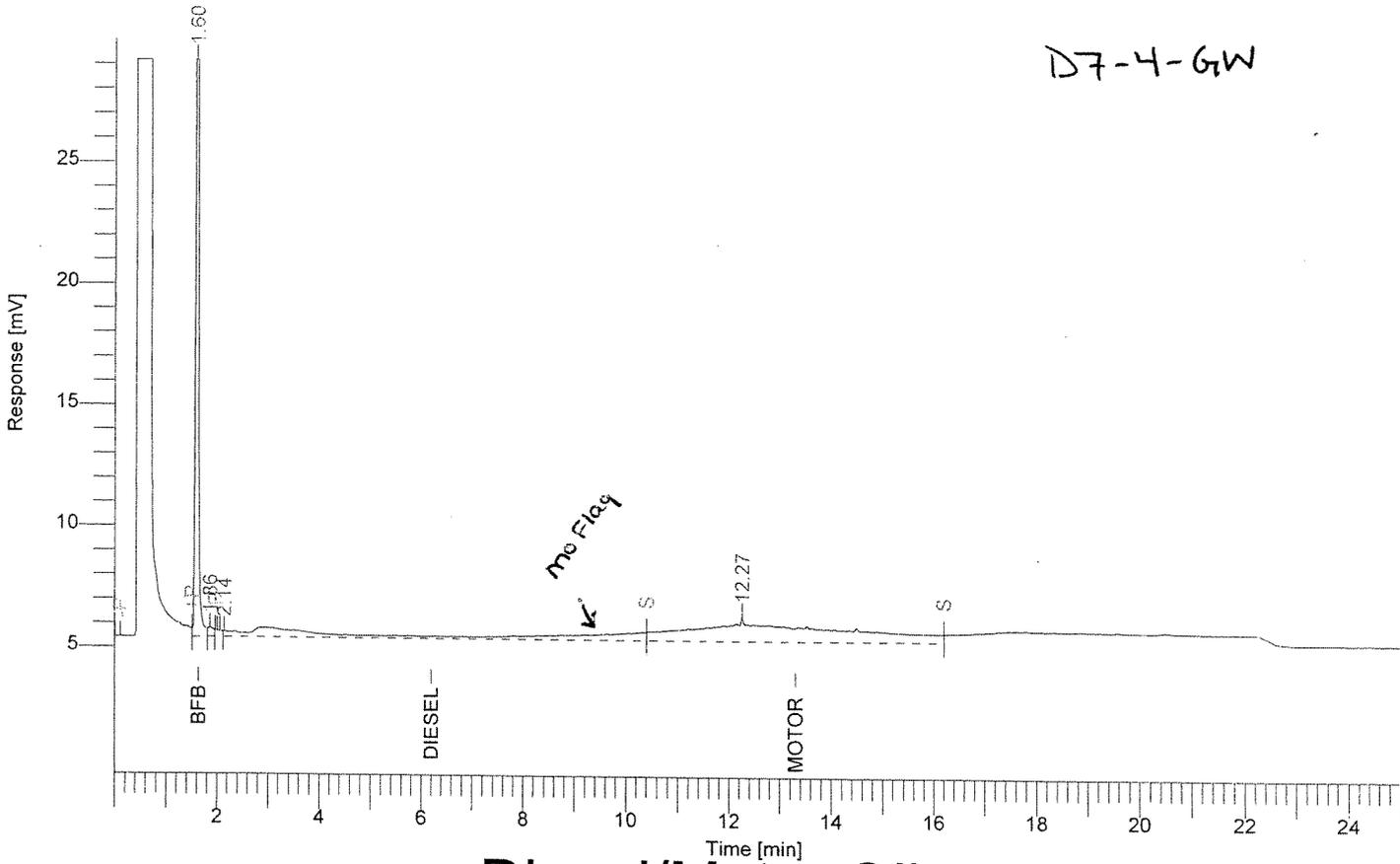
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT365.TX0

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 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-07
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 7

Date : 7/18/03 2:01:49 AM
 Data Acquisition Time : 7/18/03 1:36:39 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT374.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	7.744	172875	48945
2	1.86		0.003	2670	355
3	2.14	Diesel	1.200	80297	217
4	12.27	Motor Oil	5.103	170625	997
			14.050	426467	50514

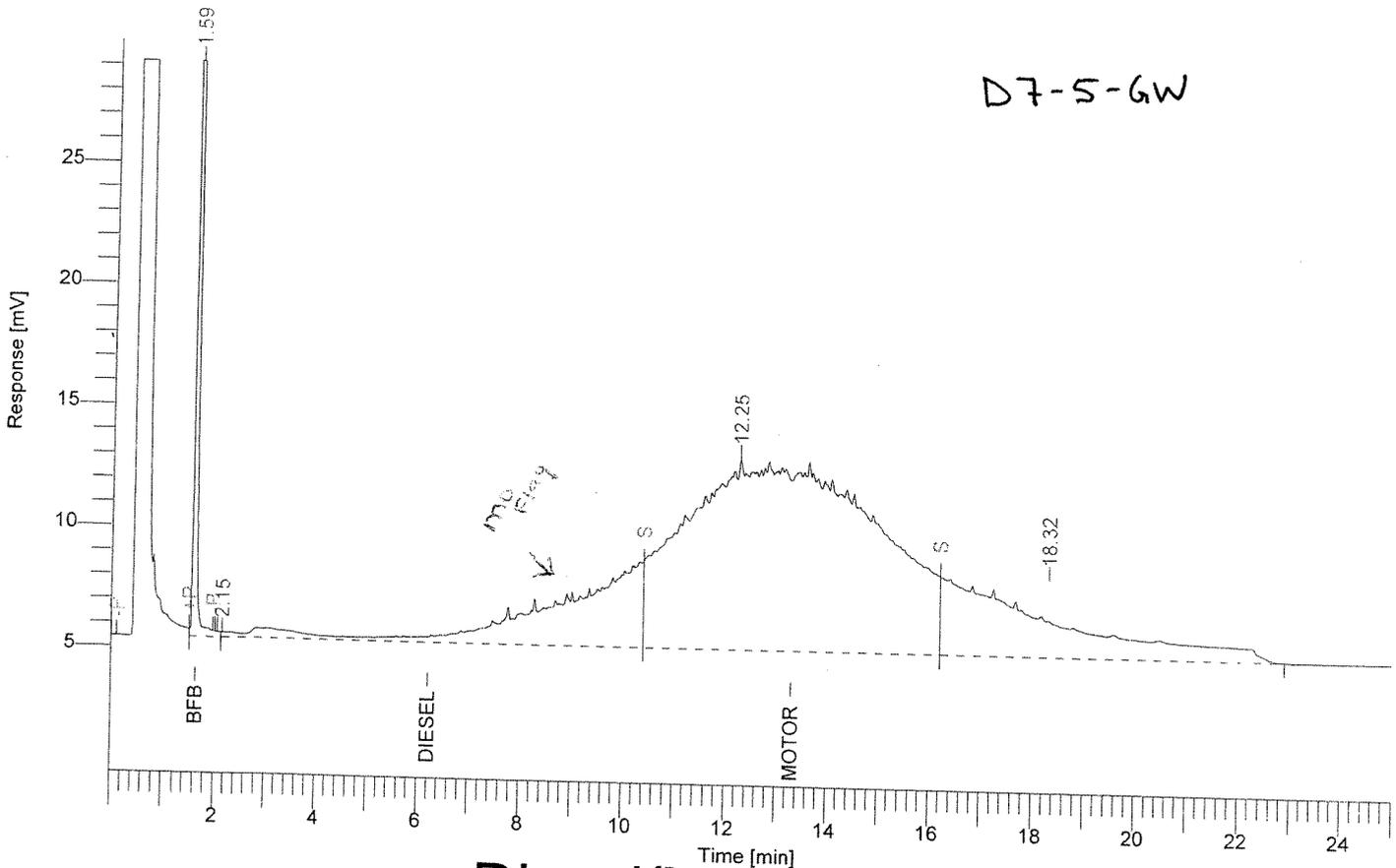
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RECEIVED
 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-08
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 8

Date : 7/18/03 2:42:19 AM
 Data Acquisition Time : 7/18/03 2:17:11 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT375.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	7.453	166195	43199
2	2.15	Diesel	9.731	427709	208
3	12.25	Motor Oil	71.356	2038818	7902
4	18.32		0.502	502283	1500
			89.041	3135006	52809

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT375.TX0

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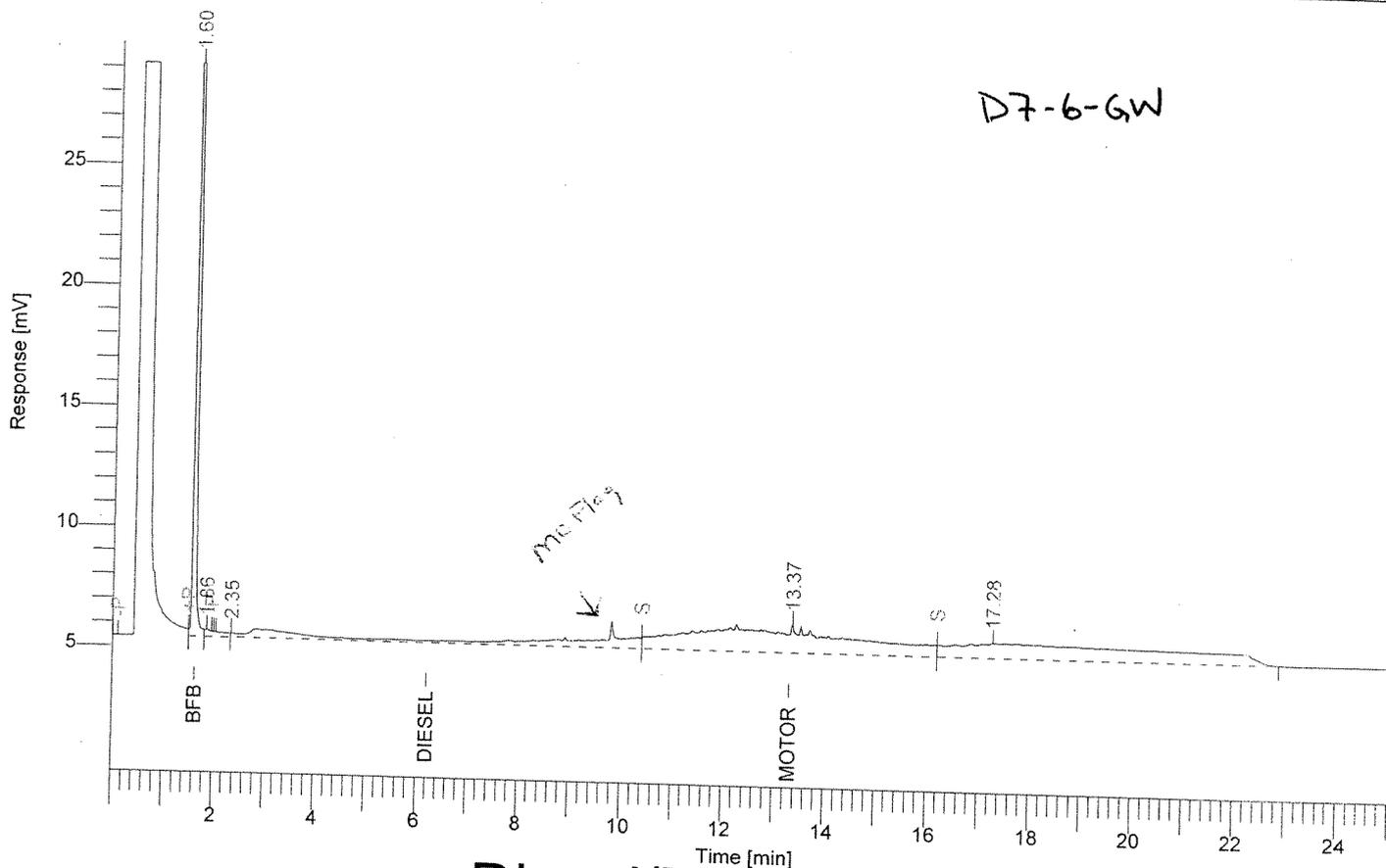
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-09
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 9

Date : 7/18/03 3:22:43 AM
 Data Acquisition Time : 7/18/03 2:57:34 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT376.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	6.579	146289	43318
2	1.86		0.006	6287	294
3	2.35	Diesel	1.365	86999	177
4	13.37	Motor Oil	7.398	236935	1162
5	17.28		0.196	195569	630
			15.544	672079	45581

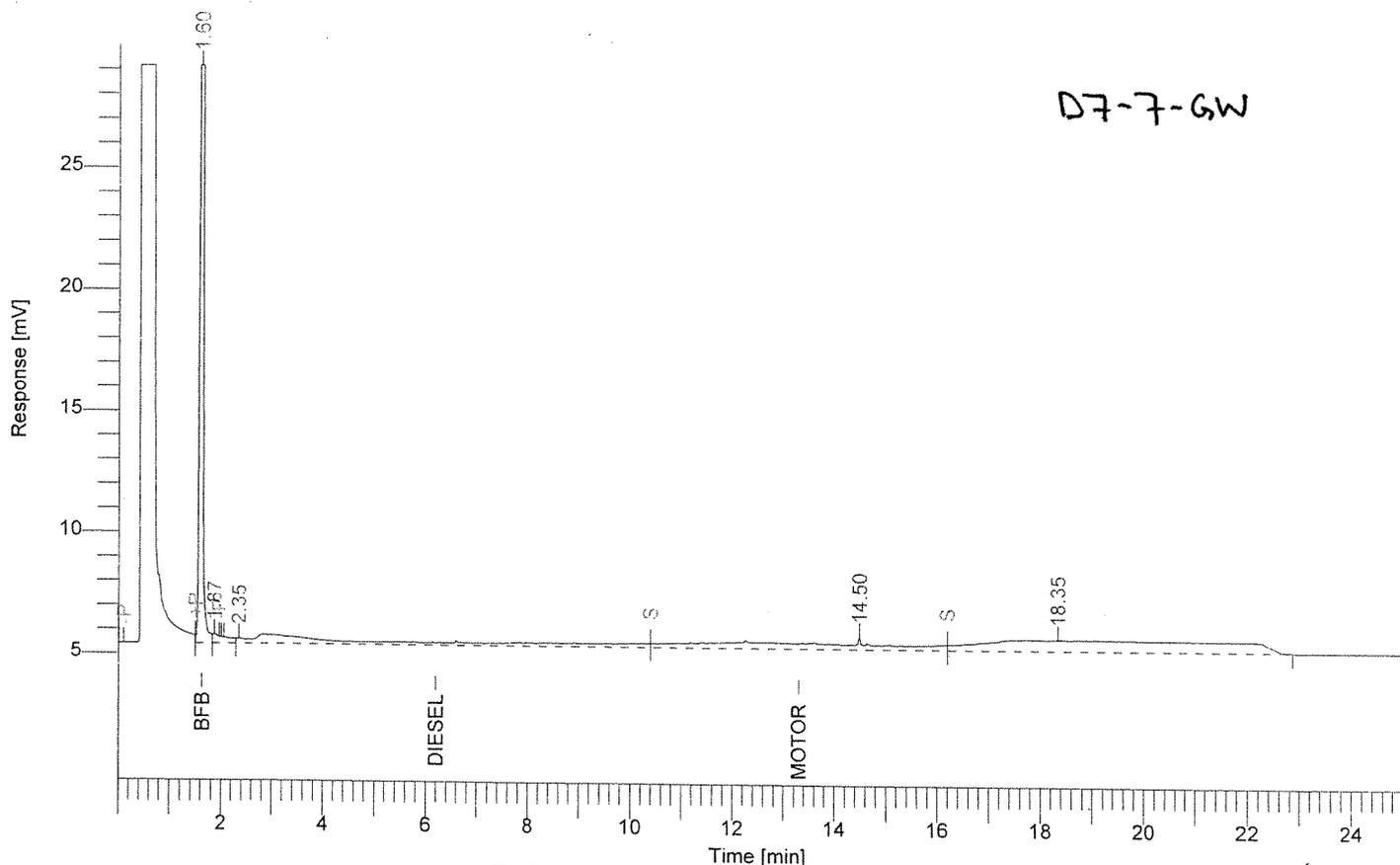
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT376.TX0

RECEIVED
 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-10
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 10

Date : 7/18/03 4:03:07 AM
 Data Acquisition Time : 7/18/03 3:37:58 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT377.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	9.376	210504	59937
2	1.87		0.007	6849	366
3	2.35	Diesel	0.904	68192	198
4	14.50	Motor Oil	1.621	69827	505
5	18.35		0.152	151674	451
			12.059	507046	61457

*890ml
 Raise Reporting
 Limit
 since
 MIN. DETECT. LIMIT
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Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT377.TX0

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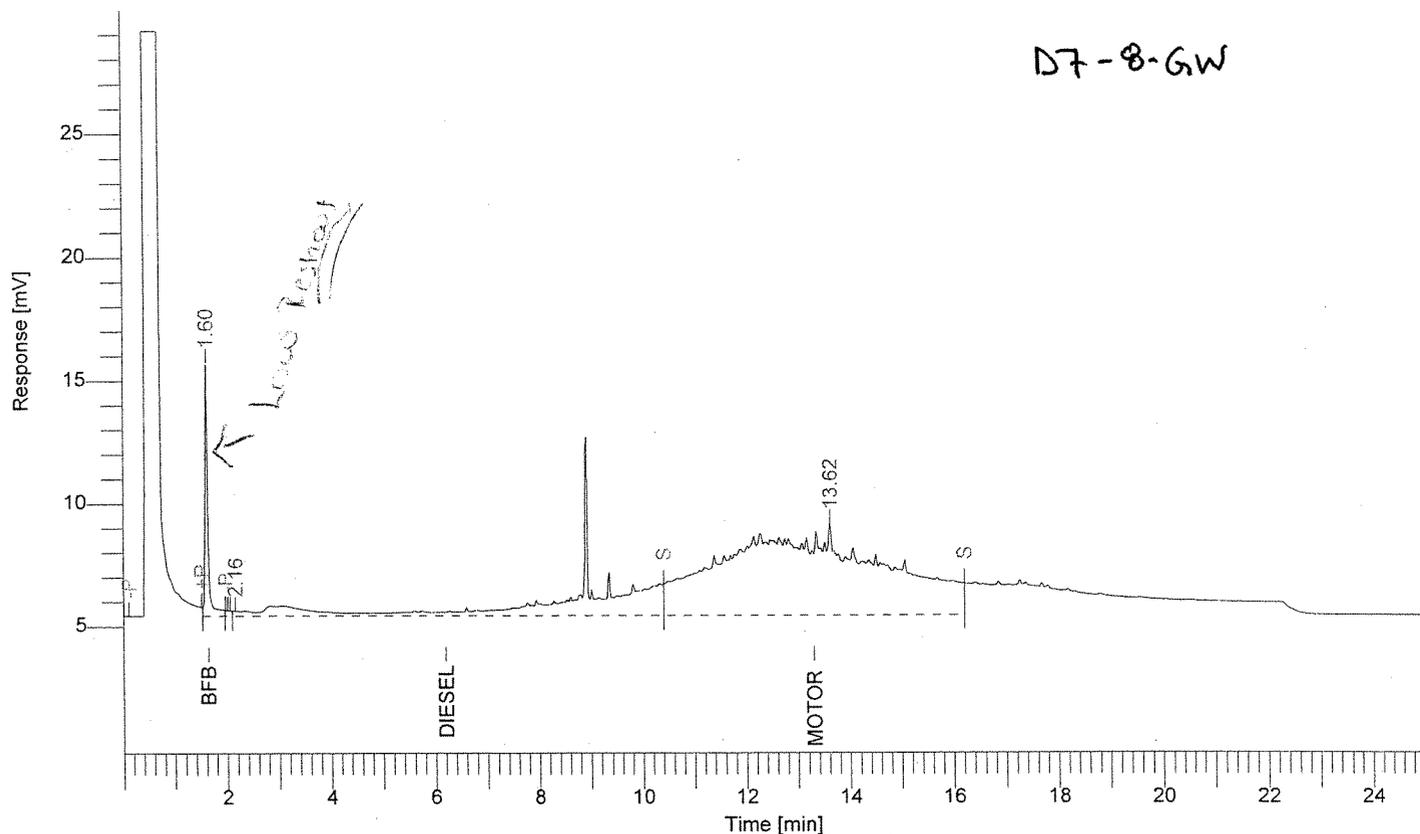
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-11
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11

Date : 7/18/03 4:43:31 AM
 Data Acquisition Time : 7/18/03 4:18:21 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT378.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	1.792	39691	9446
2	2.16	Diesel	4.173	201492	193
3	13.62	Motor Oil	25.478	755193	3726
			31.443	996376	13365

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT378.TX0

RECEIVED

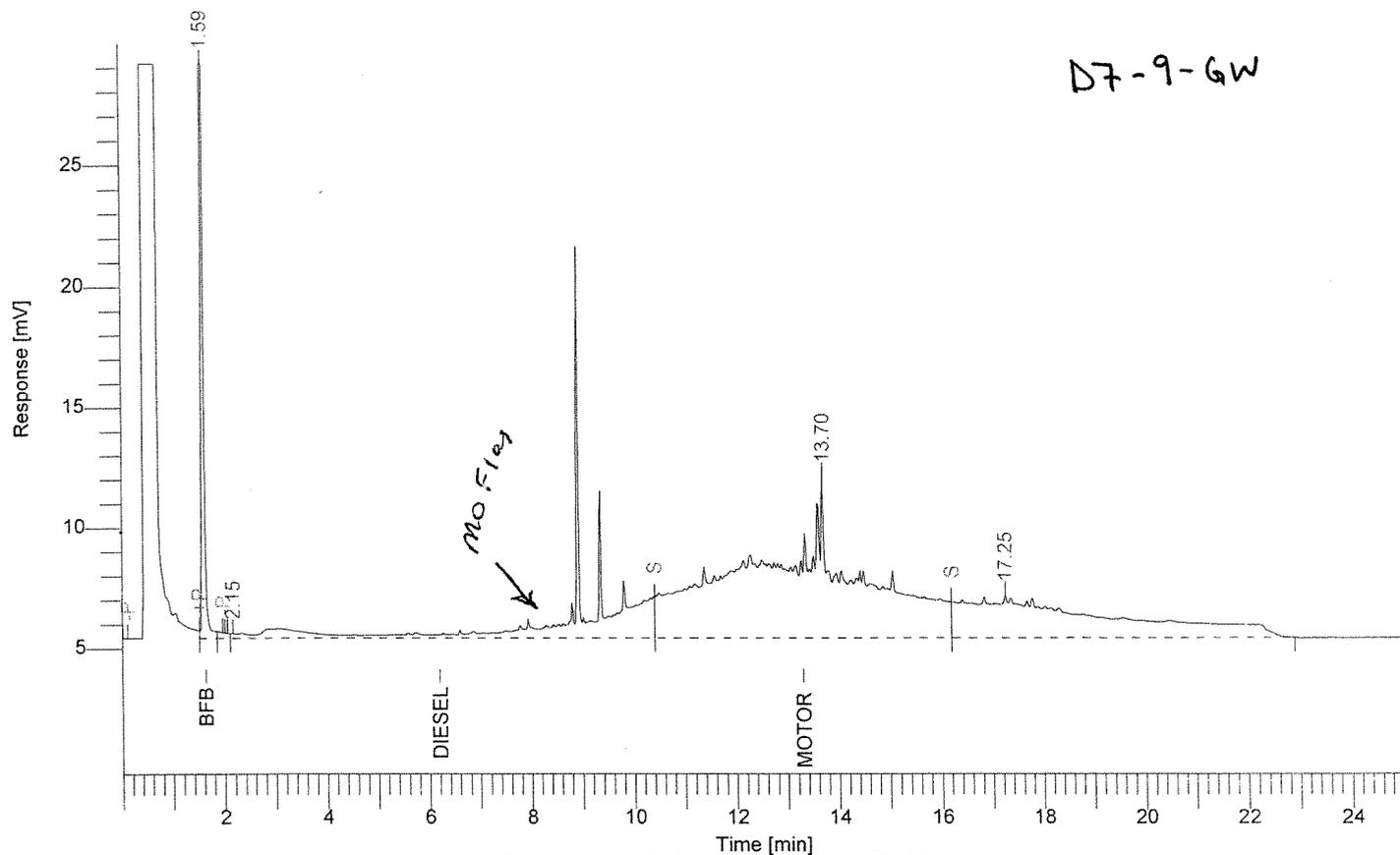
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-12
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 12

Date : 7/18/03 5:23:56 AM
 Data Acquisition Time : 7/18/03 4:58:48 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT379.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071703_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	4.356	96277	25804
2	2.15	Diesel	5.158	241619	201
3	13.70	Motor Oil	28.391	838047	6686
4	17.25		0.351	350640	1747
			38.256	1526582	34439

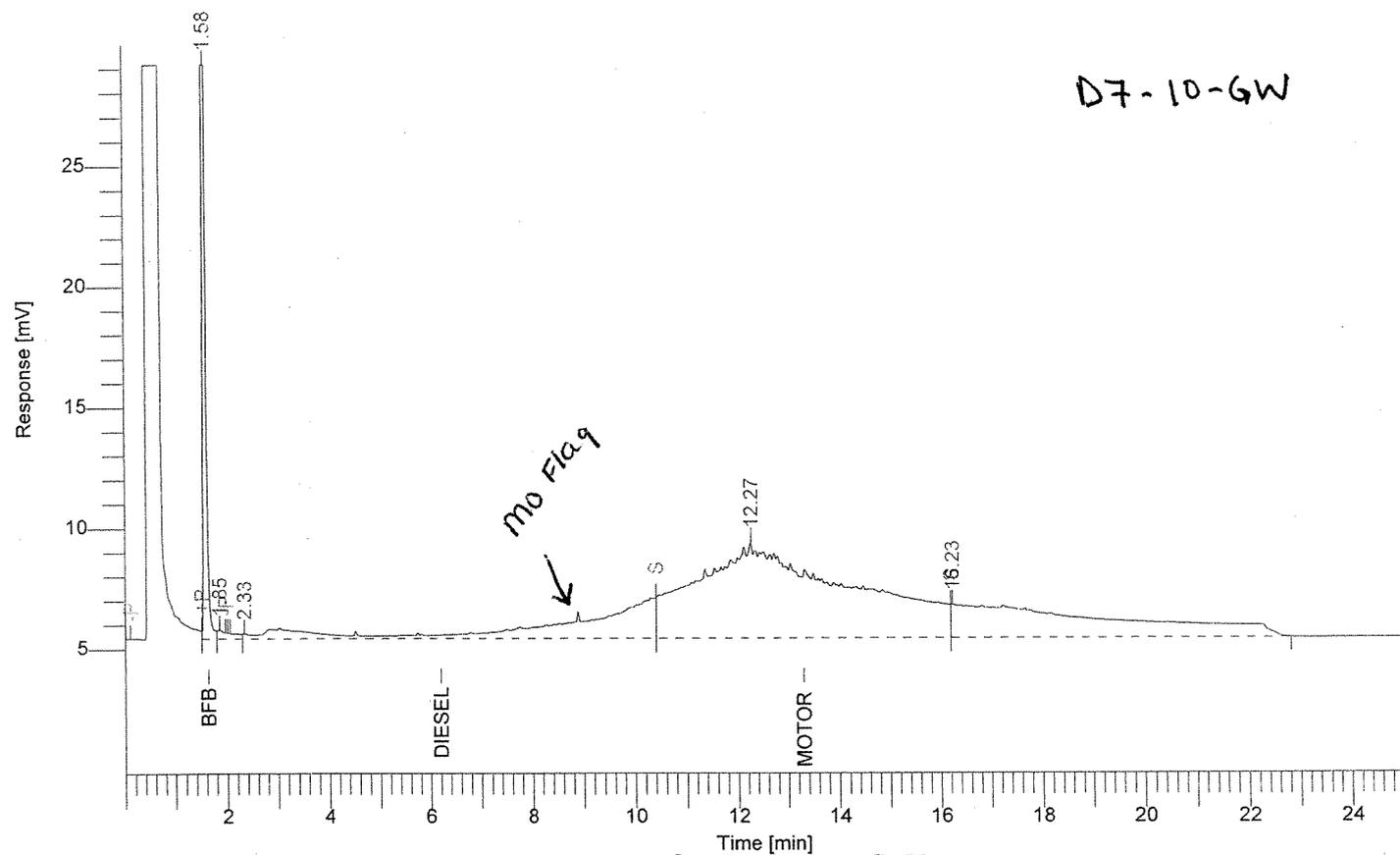
Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT379.TX0

RECEIVED
 AUG 11 2003
 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-13
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 6

Date : 7/18/03 9:15:41 PM
 Data Acquisition Time : 7/18/03 8:50:13 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT390.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.58	BFB	7.059	157220	44643
2	1.85		0.007	7172	350
3	2.33	Diesel	4.018	195160	202
4	12.27	Motor Oil	27.490	812463	3972
5	16.23		0.303	302848	1364
			38.878	1474863	50531

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT390.TX0

RECEIVED

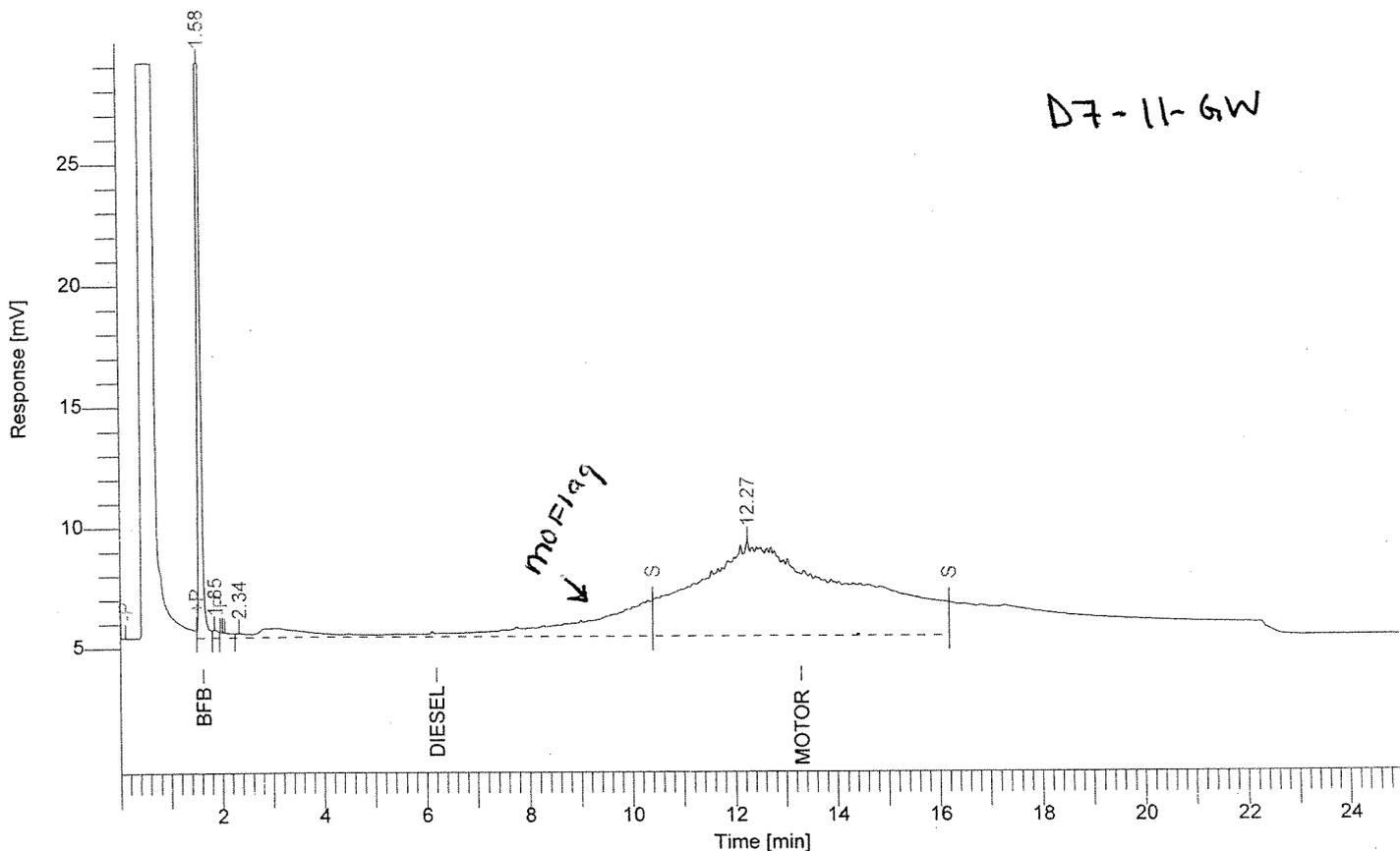
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-14
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 7

Date : 7/18/03 9:55:58 PM
 Data Acquisition Time : 7/18/03 9:30:38 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT391.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.58	BFB	7.124	158705	45899
2	1.85		0.003	2684	332
3	2.34	Diesel	3.465	172619	190
4	12.27	Motor Oil	27.395	809759	3957
			37.987	1143767	50378

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT391.TX0

RECEIVED

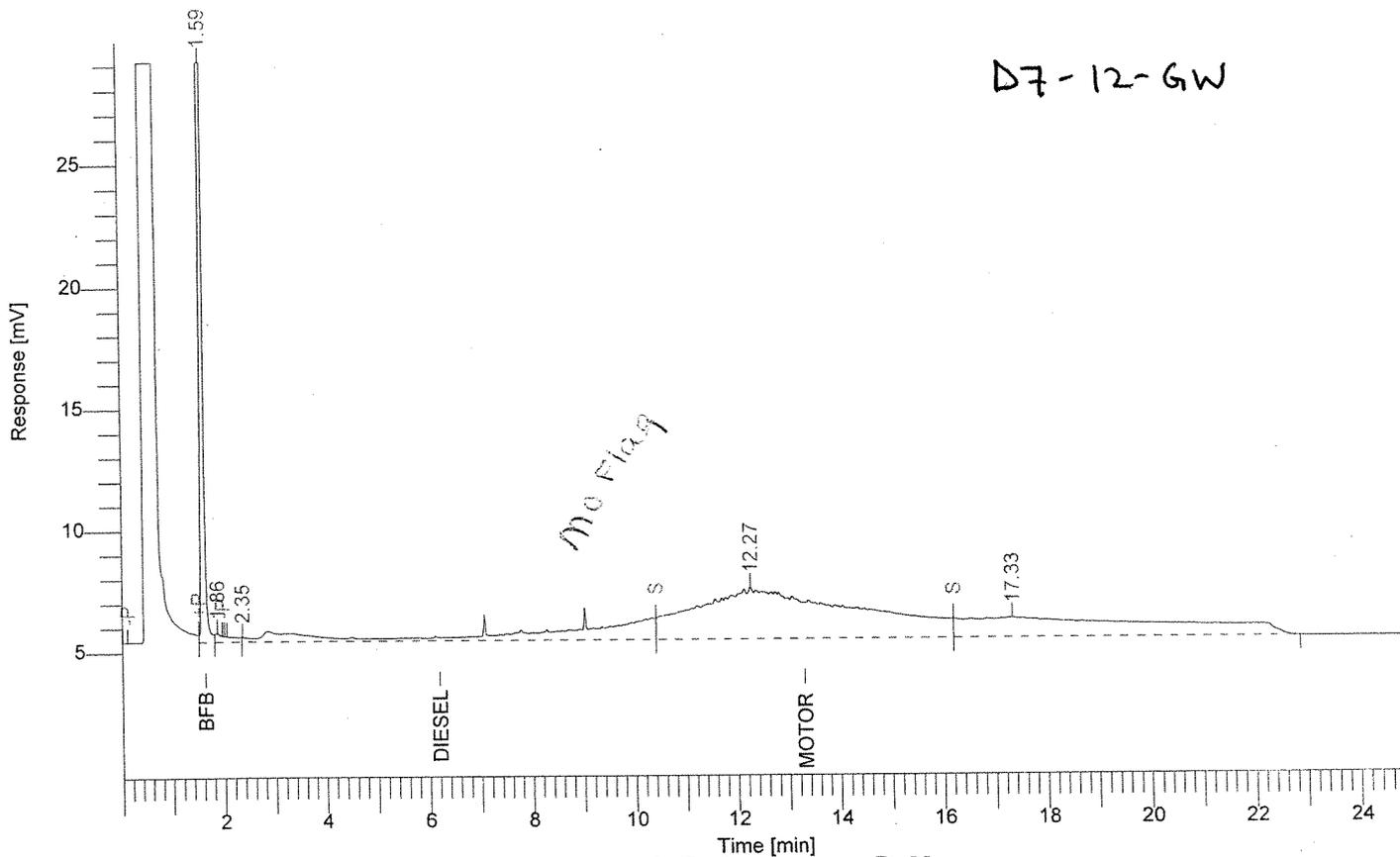
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-15
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 8

Date : 7/18/03 10:11:08 PM
 Data Acquisition Time : 7/18/03 10:11:08 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT392.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



D7-12-GW

Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	8.376	187381	53341
2	1.86		0.007	7234	353
3	2.35	Diesel	2.585	136755	186
4	12.27	Motor Oil	15.004	455813	2121
5	17.33		0.227	226644	809
			26.199	1013827	56809

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT392.TX0

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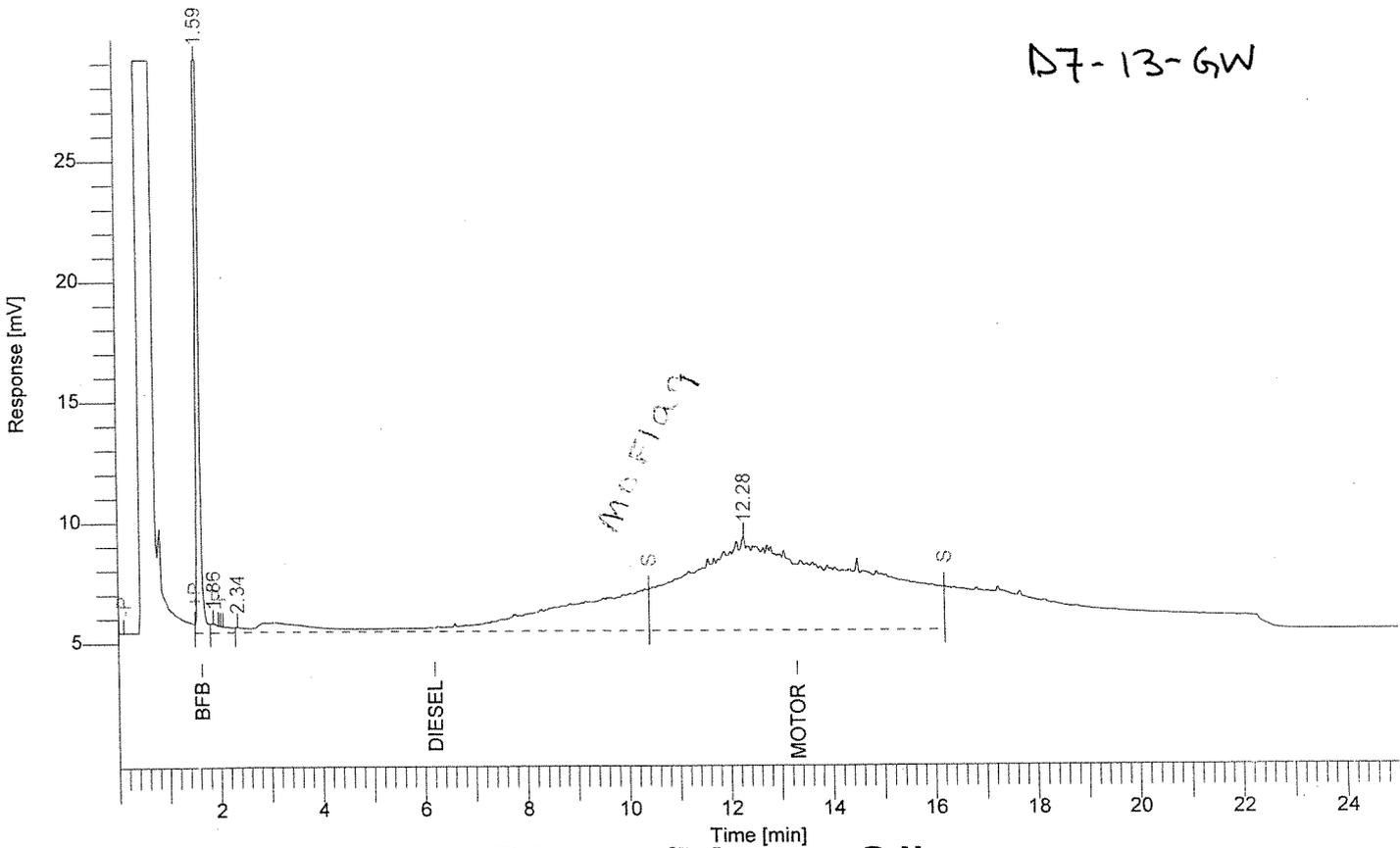
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-16
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 9

Date : 7/18/03 11:16:53 PM
 Data Acquisition Time : 7/18/03 10:51:37 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT393.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	7.053	157066	42240
2	1.86		0.008	7829	385
3	2.34	Diesel	5.448	253421	218
4	12.28	Motor Oil	30.008	883960	3879
			42.516	1302276	46722

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT393.TX0

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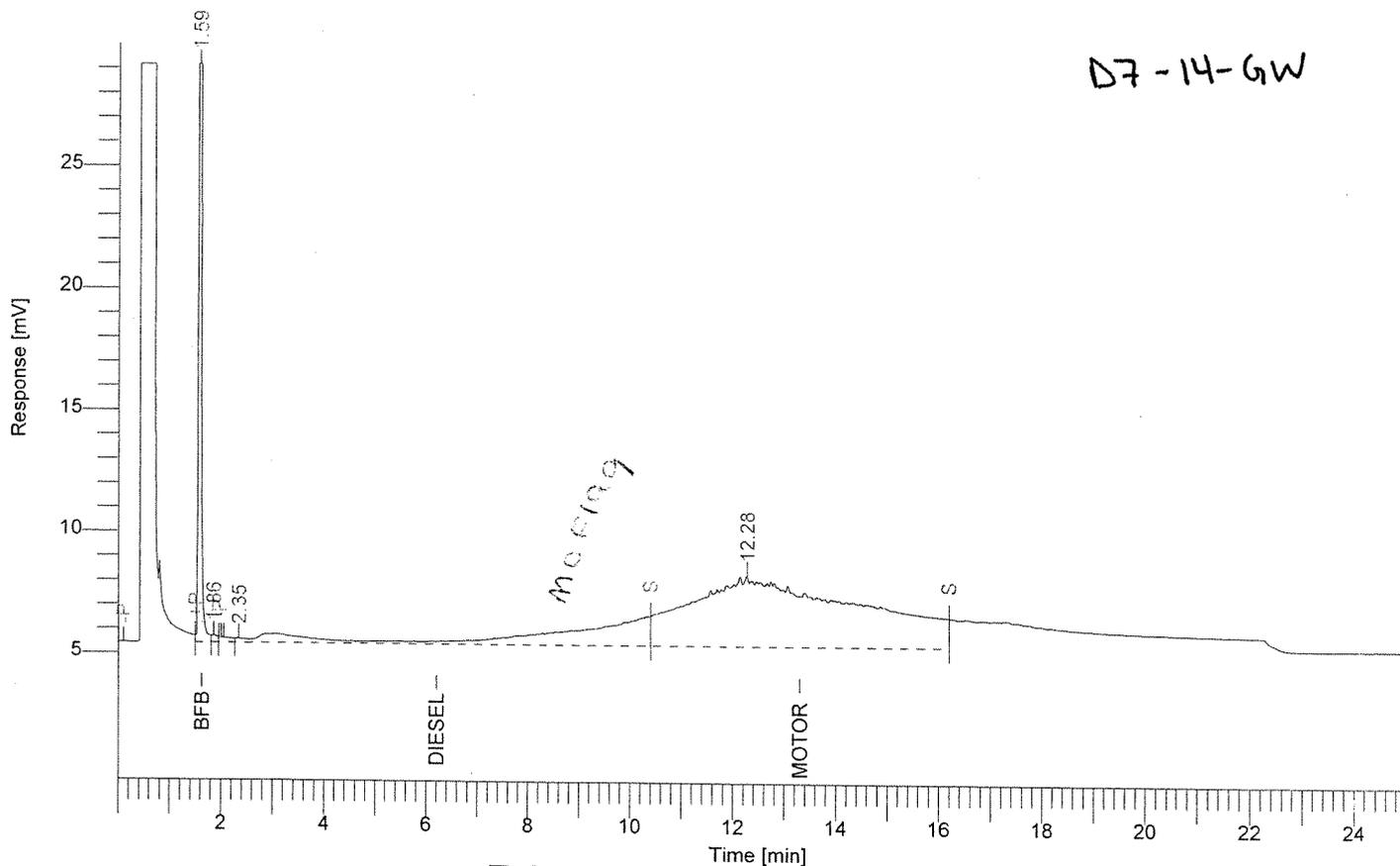
MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-17
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 10

Date : 7/18/03 11:57:21 PM
 Data Acquisition Time : 7/18/03 11:32:03 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT394.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq

D7-14-GW



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	6.933	154336	45400
2	1.86		0.002	2182	284
3	2.35	Diesel	3.097	157606	162
4	12.28	Motor Oil	22.088	658571	2920
			32.120	972694	48766

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT394.TX0

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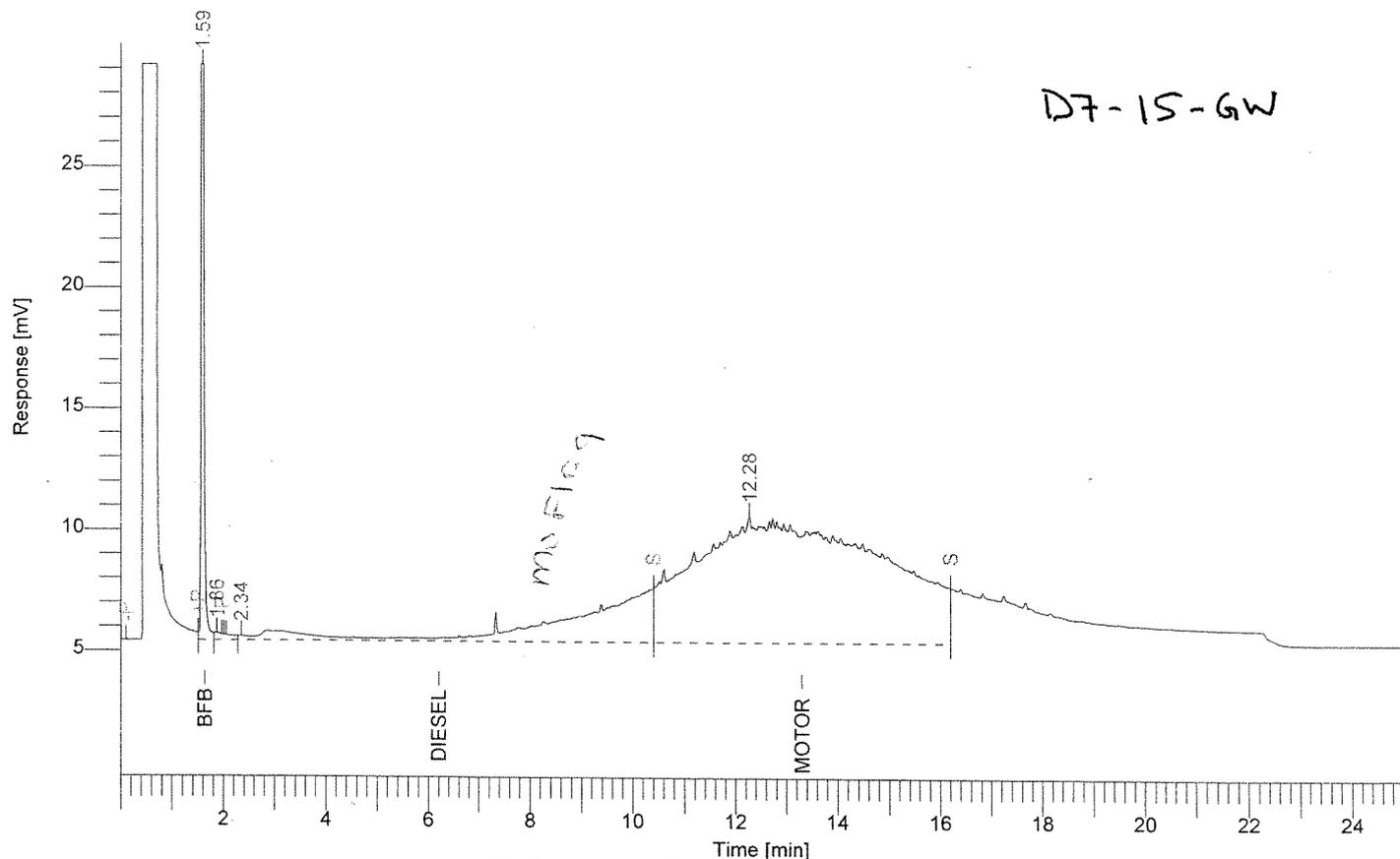
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-18
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11

Date : 7/19/03 12:37:51 AM
 Data Acquisition Time : 7/19/03 12:12:33 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT395.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	5.785	128326	35875
2	1.86		0.006	6230	311
3	2.34	Diesel	5.517	256241	186
4	12.28	Motor Oil	45.382	1317655	5223
			56.691	1708452	41596

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT395.TX0

RECEIVED

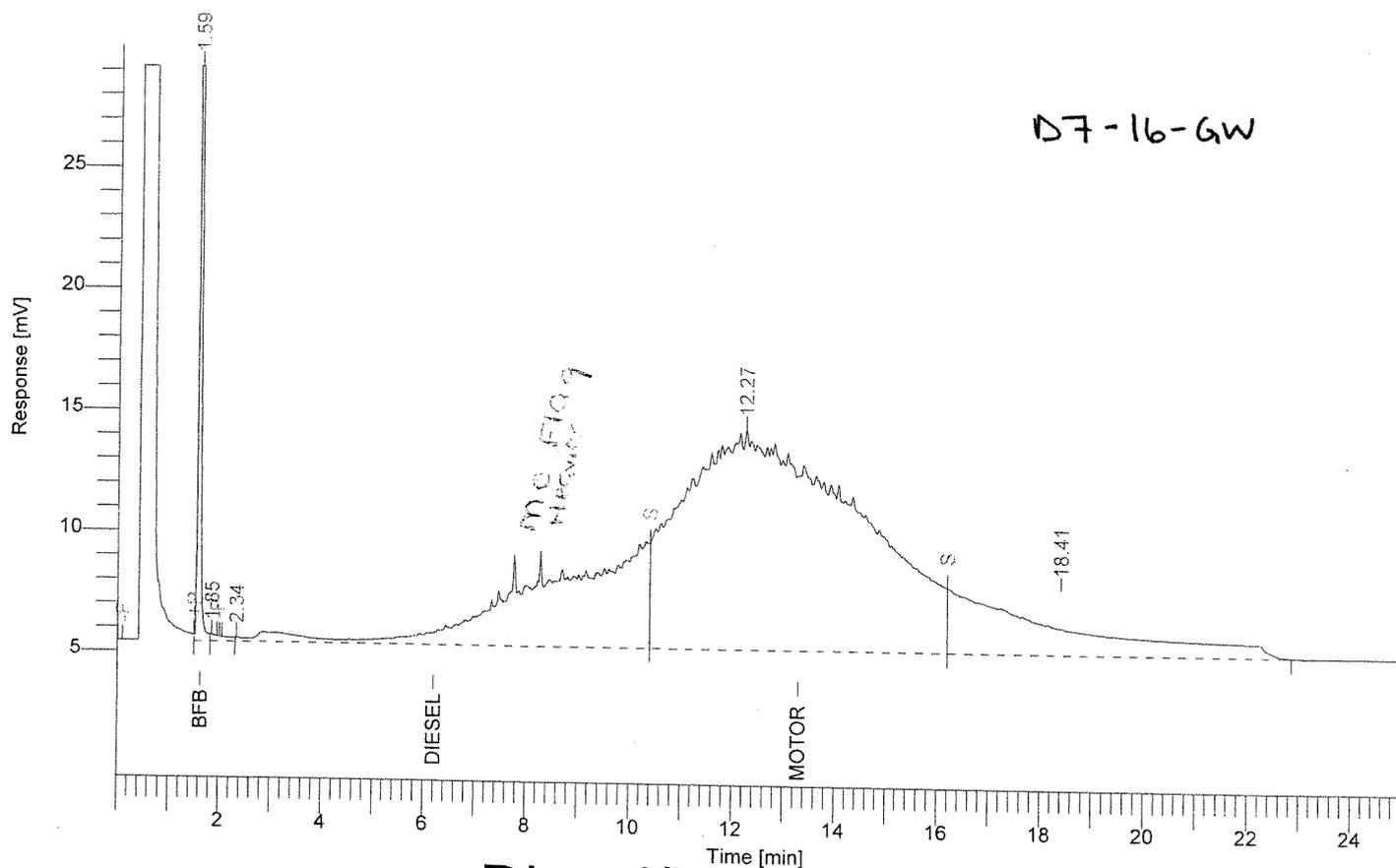
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-19
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 12

Date : 7/19/03 1:18:18 AM
 Data Acquisition Time : 7/19/03 12:53:05 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT396.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.59	BFB	5.477	121379	36188
2	1.85		0.005	5490	275
3	2.34	Diesel	15.277	653062	164
4	12.27	Motor Oil	76.020	2166780	9115
5	18.41		0.408	407625	1081
			97.187	3354336	46823

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT396.TX0

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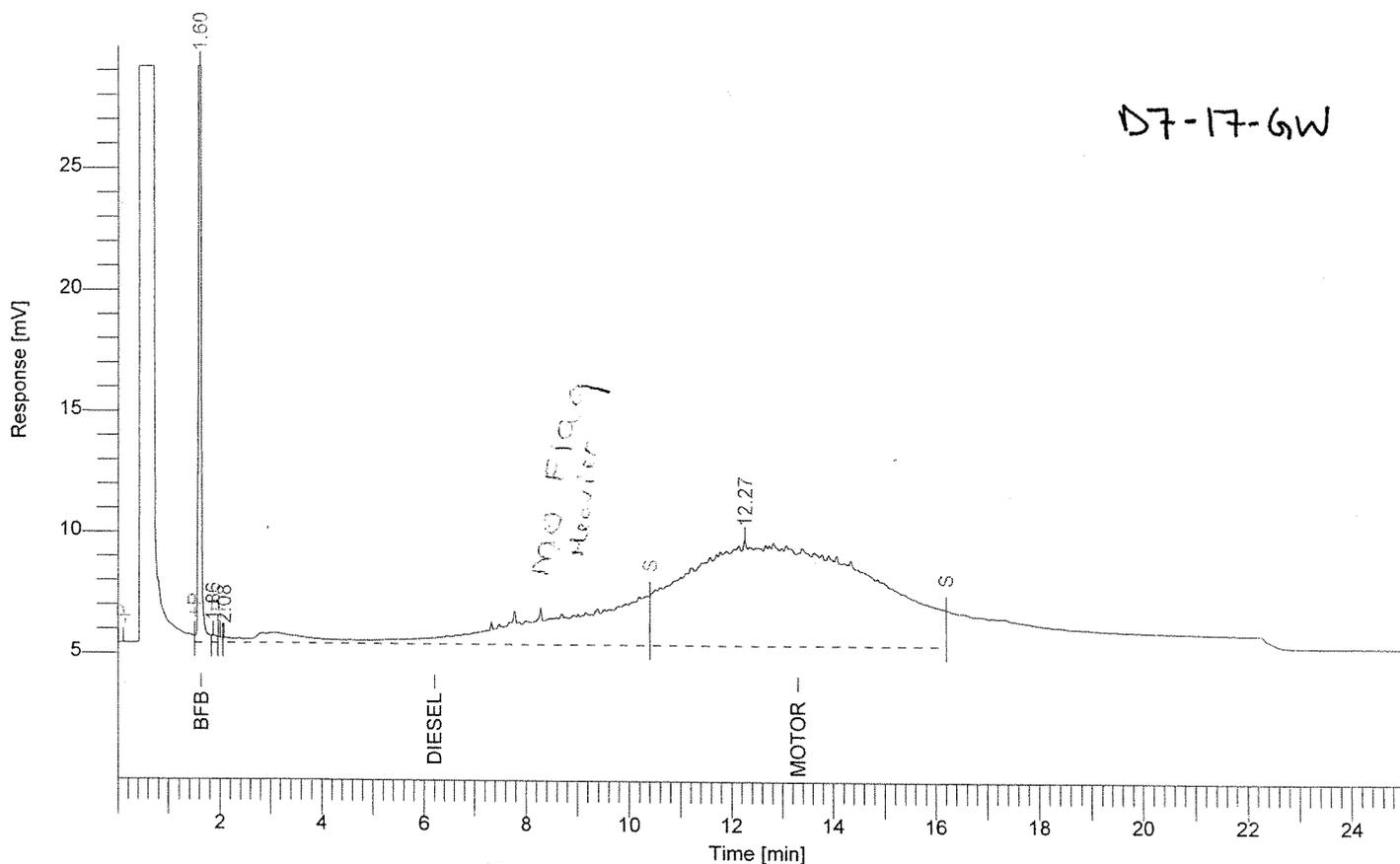
AUG 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307306-20
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 13

Date : 7/19/03 1:58:48 AM
 Data Acquisition Time : 7/19/03 1:33:31 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\PenExe\TcWS\Stats\Data\ATDAT397.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_071803_2.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.60	BFB	5.762	127817	36871
2	1.86		0.002	1981	297
3	2.08	Diesel	6.734	305795	201
4	12.27	Motor Oil	37.446	1094416	4364
			49.945	1530009	41733

Report stored in ASCII file: C:\PenExe\TcWS\Stats\Data\ATDAT397.TX0

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MFG, Inc.

208 Mason St. Ukiah, California 95482

10 September 2003

MFG, Inc

Attn: Ed Conti

180 Howard St. Suite 200

San Francisco, CA 94105-2941

RE: SPI-Arcata/Task #4

Work Order: A307607

Enclosed are the results of analyses for samples received by the laboratory on 07/25/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen A. Daly For Sheri L. Speaks
Project Manager



Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 1 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u> A307607	<u>Receipt Date/Time</u> 07/25/2003 15:40	<u>Client Code</u> MFGINC	<u>Client PO/Reference</u>
--------------------------------	--	------------------------------	----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RP-3-SW	A307607-01	Water	07/24/03 11:20	07/25/03 15:40
D6-1-GW	A307607-02	Water	07/22/03 10:00	07/25/03 15:40
D6-2-GW	A307607-03	Water	07/22/03 10:50	07/25/03 15:40
D6-3-GW	A307607-04	Water	07/22/03 11:25	07/25/03 15:40
D6-4-GW	A307607-05	Water	07/22/03 12:00	07/25/03 15:40
D6-5-GW	A307607-06	Water	07/22/03 15:15	07/25/03 15:40
D6-6-GW	A307607-07	Water	07/22/03 15:45	07/25/03 15:40
D6-7-GW	A307607-08	Water	07/22/03 16:25	07/25/03 15:40
D6-8-GW	A307607-09	Water	07/23/03 09:30	07/25/03 15:40
D6-9-GW	A307607-10	Water	07/23/03 10:15	07/25/03 15:40
D6-10-GW	A307607-11	Water	07/23/03 10:45	07/25/03 15:40
D6-11-GW	A307607-12	Water	07/23/03 11:05	07/25/03 15:40
D6-12-GW	A307607-13	Water	07/23/03 11:30	07/25/03 15:40
D6-13-GW	A307607-14	Water	07/23/03 14:10	07/25/03 15:40
D6-14-GW	A307607-15	Water	07/23/03 14:45	07/25/03 15:40
D6-15-GW	A307607-16	Water	07/23/03 15:25	07/25/03 15:40
D6-16-GW	A307607-17	Water	07/23/03 15:50	07/25/03 15:40
D6-17-GW	A307607-18	Water	07/23/03 16:30	07/25/03 15:40
D6-18-GW	A307607-19	Water	07/24/03 09:30	07/25/03 15:40
D6-19-GW	A307607-20	Water	07/24/03 09:45	07/25/03 15:40
D6-20-GW	A307607-21	Water	07/24/03 09:50	07/25/03 15:40
D6-21-GW	A307607-22	Water	07/24/03 10:10	07/25/03 15:40
D6-22-GW	A307607-23	Water	07/24/03 10:30	07/25/03 15:40
D6-23-GW	A307607-24	Water	07/24/03 10:40	07/25/03 15:40

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 2 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A307607	07/25/2003 15:40	MFGINC	
D6-24-GW		A307607-25	Water 07/24/03 11:00 07/25/03 15:40

This represents an amended copy of the original report.

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 3 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for RP-3-SW (A307607-01), D6-1-GW (A307607-02), and D6-2-GW (A307607-03) samples, including metal concentrations and TPH results.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Handwritten signature of Karen A. Daly.

Karen A. Daly For Sheri L. Speaks
Project Manager

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains three sample analysis sections: D6-2-GW (A307607-03), D6-3-GW (A307607-04), and D6-4-GW (A307607-05). Each section includes TPH as Diesel and Motor Oil by EPA Method 8015 Modified and Metals (Dissolved) by EPA 6000/7000 Series Methods.

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 5 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607, Receipt Date/Time: 07/25/2003 15:40, Client Code: MFGINC, Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for samples D6-4-GW, D6-5-GW, and D6-6-GW, including TPH and Metals analysis results.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Handwritten signature of Karen A. Daly

Karen A. Daly For Sheri L. Speaks
Project Manager

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Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for three samples: D6-6-GW, D6-7-GW, and D6-8-GW, including TPH and Metals analysis results.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Handwritten signature of Karen A. Daly

Karen A. Daly For Sheri L. Speaks
Project Manager

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MFG, Inc
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Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-8-GW (A307607-09)		Sample Type: Water			Sampled: 07/23/03 09:30		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.105	220 ug/l	55 D-09
TPH as Motor Oil	"	"	"	"	"	830 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	24.7 %	14-116
D6-9-GW (A307607-10)		Sample Type: Water			Sampled: 07/23/03 10:15		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/01/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.064	59 ug/l	53 D-09
TPH as Motor Oil	"	"	"	"	"	250 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	22.9 %	14-116
D6-10-GW (A307607-11)		Sample Type: Water			Sampled: 07/23/03 10:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/01/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 8 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-10-GW (A307607-11)		Sample Type: Water			Sampled: 07/23/03 10:45		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.22	ND ug/l	61 R-01
TPH as Motor Oil	"	"	"	"	"	ND "	120
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	23.9 %	14-116	
D6-11-GW (A307607-12)		Sample Type: Water			Sampled: 07/23/03 11:05		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/01/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.099	ND ug/l	55
TPH as Motor Oil	"	"	"	"	"	ND "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	23.4 %	14-116	
D6-12-GW (A307607-13)		Sample Type: Water			Sampled: 07/23/03 11:30		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/01/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Karen A. Daly For Sheri L. Speaks
Project Manager

9/10/03



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CHEMICAL EXAMINATION REPORT

Page 9 of 21

MFG, Inc
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Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-12-GW (A307607-13)		Sample Type: Water			Sampled: 07/23/03 11:30		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.047	74 ug/l	52 D-09
TPH as Motor Oil	"	"	"	"	"	170 "	100
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		25.2 %	14-116
D6-13-GW (A307607-14)		Sample Type: Water			Sampled: 07/23/03 14:10		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.163	58 ug/l	58 D-09
TPH as Motor Oil	"	"	"	"	"	170 "	120
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		14.7 %	14-116
D6-14-GW (A307607-15)		Sample Type: Water			Sampled: 07/23/03 14:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Karen A. Daly For Sheri L. Speaks
Project Manager

9/10/03



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CHEMICAL EXAMINATION REPORT

Page 10 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-14-GW (A307607-15)							
TPH as Diesel and Motor Oil by EPA Method 8015 Modified				Sample Type: Water			
				Sampled: 07/23/03 14:45			
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.36	500 ug/l	68 D-09
TPH as Motor Oil	"	"	"	"	"	2500 "	140
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		12.5 %	14-116 S-04
D6-15-GW (A307607-16)							
Metals (Dissolved) by EPA 6000/7000 Series Methods				Sample Type: Water			
				Sampled: 07/23/03 15:25			
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	13.245	1000 ug/l	660 D-09
TPH as Motor Oil	"	"	"	"	"	4400 "	1300
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		0.968 %	14-116 S-04
D6-16-GW (A307607-17)							
Metals (Dissolved) by EPA 6000/7000 Series Methods				Sample Type: Water			
				Sampled: 07/23/03 15:50			
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 11 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-16-GW (A307607-17)		Sample Type: Water			Sampled: 07/23/03 15:50		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33002	07/29/03	07/30/03	1.242	440 ug/l	62 D-09
TPH as Motor Oil	"	"	"	"	"	2100 "	120
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	13.3 % 14-116	S-04
D6-17-GW (A307607-18)		Sample Type: Water			Sampled: 07/23/03 16:30		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.099	310 ug/l	55 D-09
TPH as Motor Oil	"	"	"	"	"	1300 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	37.1 % 14-116	
D6-18-GW (A307607-19)		Sample Type: Water			Sampled: 07/24/03 09:30		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

Page 12 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307607 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-18-GW (A307607-19)		Sample Type: Water			Sampled: 07/24/03 09:30		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.205	320 ug/l	60 D-09
TPH as Motor Oil	"	"	"	"	"	1300 "	120
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	58.4 %	14-116
D6-19-GW (A307607-20)		Sample Type: Water			Sampled: 07/24/03 09:45		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33110	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.136	80 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	320 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	45.3 %	14-116
D6-20-GW (A307607-21)		Sample Type: Water			Sampled: 07/24/03 09:50		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33111	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Project Manager

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
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Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307607 07/25/2003 15:40 MFGINC

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-20-GW (A307607-21)		Sample Type: Water			Sampled: 07/24/03 09:50		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.1905	63 ug/l	60 D-09
TPH as Motor Oil	"	"	"	"	"	190 "	120
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		37.6 %	14-116
D6-21-GW (A307607-22)		Sample Type: Water			Sampled: 07/24/03 10:10		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33111	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.143	130 ug/l	57 D-09
TPH as Motor Oil	"	"	"	"	"	430 "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		41.0 %	14-116
D6-22-GW (A307607-23)		Sample Type: Water			Sampled: 07/24/03 10:30		
Metals (Dissolved) by EPA 6000/7000 Series Methods							
Cadmium, dissolved	EPA 6010	AG33111	07/31/03	08/04/03	1	ND mg/l	0.010
Chromium, dissolved	"	"	"	"	"	ND "	0.050
Nickel, dissolved	"	"	"	"	"	ND "	0.10
Lead, dissolved	"	"	"	"	"	ND "	0.050
Zinc, dissolved	"	"	"	"	"	ND "	0.10

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Project Manager

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CHEMICAL EXAMINATION REPORT

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MFG, Inc
180 Howard St. Suite 200
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Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for three samples: D6-22-GW, D6-23-GW, and D6-24-GW, including TPH and metal analysis results.

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Karen A. Daly For Sheri L. Speaks
Project Manager

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MFG, Inc
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Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307607 07/25/2003 15:40 MFGINC

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METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
D6-24-GW (A307607-25)		Sample Type: Water			Sampled: 07/24/03 11:00		
TPH as Diesel and Motor Oil by EPA Method 8015 Modified							
TPH as Diesel	8015DRO	AG33007	07/30/03	07/31/03	1.099	ND ug/l	55
TPH as Motor Oil	"	"	"	"	"	ND "	110
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"	"	33.5 %	14-116

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Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607
Receipt Date/Time: 07/25/2003 15:40
Client Code: MFGINC
Client PO/Reference:

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AG33110 - EPA 200 Series, Blank (AG33110-BLK1), LCS (AG33110-BS1), LCS Dup (AG33110-BSD1), Duplicate (AG33110-DUP1), and Matrix Spike (AG33110-MS1).

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Handwritten signature of Karen A. Daly

Karen A. Daly For Sheri L. Speaks
Project Manager

9/10/03



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Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Batch AG33110 - EPA 200 Series (Matrix Spike and Matrix Spike Dup), Batch AG33111 - EPA 200 Series (Blank and LCS).

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Project Manager

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180 Howard St. Suite 200
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Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number Receipt Date/Time Client Code Client PO/Reference
A307607 07/25/2003 15:40 MFGINC

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33111 - EPA 200 Series										
LCS Dup (AG33111-BSD1)				Prepared: 07/31/03 Analyzed: 08/04/03						
Cadmium, dissolved	0.204	0.010	mg/l	0.200		102	85-115	0.00	20	
Chromium, dissolved	0.207	0.050	"	0.200		104	85-115	0.482	20	
Lead, dissolved	0.201	0.050	"	0.200		100	85-115	2.01	20	
Nickel, dissolved	0.194	0.10	"	0.200		97.0	85-115	0.00	20	
Zinc, dissolved	0.218	0.10	"	0.200		109	85-115	1.82	20	
Duplicate (AG33111-DUP1)				Source: A307607-21 Prepared: 07/31/03 Analyzed: 08/04/03						
Cadmium, dissolved	ND	0.010	mg/l		ND				20	
Chromium, dissolved	ND	0.050	"		ND				20	
Lead, dissolved	ND	0.050	"		ND				20	
Nickel, dissolved	ND	0.10	"		ND				20	
Zinc, dissolved	ND	0.10	"		ND				20	
Matrix Spike (AG33111-MS1)				Source: A307607-21 Prepared: 07/31/03 Analyzed: 08/04/03						
Cadmium, dissolved	0.192	0.010	mg/l	0.200	ND	96.0	70-130			
Chromium, dissolved	0.211	0.050	"	0.200	ND	101	70-130			
Lead, dissolved	0.194	0.050	"	0.200	ND	90.5	70-130			
Nickel, dissolved	0.196	0.10	"	0.200	ND	96.3	70-130			
Zinc, dissolved	0.224	0.10	"	0.200	ND	109	70-130			
Matrix Spike Dup (AG33111-MSD1)				Source: A307607-21 Prepared: 07/31/03 Analyzed: 08/04/03						
Cadmium, dissolved	0.194	0.010	mg/l	0.200	ND	97.0	70-130	1.04	20	
Chromium, dissolved	0.215	0.050	"	0.200	ND	103	70-130	1.88	20	
Lead, dissolved	0.197	0.050	"	0.200	ND	92.0	70-130	1.53	20	
Nickel, dissolved	0.193	0.10	"	0.200	ND	94.8	70-130	1.54	20	
Zinc, dissolved	0.225	0.10	"	0.200	ND	109	70-130	0.445	20	

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Karen A. Daly For Sheri L. Speaks
Project Manager

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Page 19 of 21

MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A307607	07/25/2003 15:40	MFGINC	

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag	
Batch AG32826 - EPA 3510B Water											
Blank (AG32826-BLK1)				Prepared: 07/28/03 Analyzed: 07/29/03							
TPH as Diesel	ND	50	ug/l								
TPH as Motor Oil	ND	100	"								
Surrogate: 1,4-Bromofluorobenzene	439		"	620		70.8	14-116				
LCS (AG32826-BS1)				Prepared: 07/28/03 Analyzed: 07/29/03							
TPH as Diesel	2060	50	ug/l	2090		98.6	57-136				
TPH as Motor Oil	2260	100	"	2090		108	58-138				
Surrogate: 1,4-Bromofluorobenzene	474		"	620		76.5	14-116				
LCS Dup (AG32826-BSD1)				Prepared: 07/28/03 Analyzed: 07/29/03							QM-10
TPH as Diesel	2080	50	ug/l	2090		99.5	57-136	0.966	25		
TPH as Motor Oil	2300	100	"	2090		110	58-138	1.75	25		
Surrogate: 1,4-Bromofluorobenzene	483		"	620		77.9	14-116				
Batch AG33002 - EPA 3510B Water											
Blank (AG33002-BLK1)				Prepared: 07/29/03 Analyzed: 08/01/03							
TPH as Diesel	ND	50	ug/l								
TPH as Motor Oil	ND	100	"								
Surrogate: 1,4-Bromofluorobenzene	356		"	620		57.4	14-116				
LCS (AG33002-BS1)				Prepared: 07/29/03 Analyzed: 08/01/03							
TPH as Diesel	1540	50	ug/l	2090		73.7	57-136				
TPH as Motor Oil	2020	100	"	2090		96.7	58-138				
Surrogate: 1,4-Bromofluorobenzene	299		"	620		48.2	14-116				
LCS Dup (AG33002-BSD1)				Prepared: 07/29/03 Analyzed: 08/01/03							QM-10
TPH as Diesel	1600	50	ug/l	2090		76.6	57-136	3.82	25		

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Karen A. Daly For Sheri L. Speaks
Project Manager

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CHEMICAL EXAMINATION REPORT

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MFG, Inc
180 Howard St. Suite 200
San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

Order Number: A307607 Receipt Date/Time: 07/25/2003 15:40 Client Code: MFGINC Client PO/Reference:

TPH as Diesel and Motor Oil by EPA Method 8015 Modified - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG33002 - EPA 3510B Water										
LCS Dup (AG33002-BSD1)					Prepared: 07/29/03		Analyzed: 08/01/03		QM-10	
TPH as Motor Oil	2290	100	"	2090		110	58-138	12.5	25	
Surrogate: 1,4-Bromofluorobenzene	292		"	620		47.1	14-116			
Batch AG33007 - EPA 3510B Water										
Blank (AG33007-BLK1)					Prepared: 07/30/03		Analyzed: 07/31/03			
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: 1,4-Bromofluorobenzene	463		"	620		74.7	14-116			
LCS (AG33007-BS1)					Prepared: 07/30/03		Analyzed: 07/31/03			
TPH as Diesel	1990	50	ug/l	2090		95.2	57-136			
TPH as Motor Oil	2190	100	"	2090		105	58-138			
Surrogate: 1,4-Bromofluorobenzene	503		"	620		81.1	14-116			
LCS Dup (AG33007-BSD1)					Prepared: 07/30/03		Analyzed: 07/31/03		QM-10	
TPH as Diesel	1910	50	ug/l	2090		91.4	57-136	4.10	25	
TPH as Motor Oil	2130	100	"	2090		102	58-138	2.78	25	
Surrogate: 1,4-Bromofluorobenzene	460		"	620		74.2	14-116			

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CHEMICAL EXAMINATION REPORT

Page 21 of 21

MFG, Inc
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San Francisco, CA 94105-2941
Attn: Ed Conti

Report Date: 09/10/03 08:37
Project No: 030229.4
Project ID: SPI-Arcata/Task #4

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
A307607	07/25/2003 15:40	MFGINC	

Notes and Definitions

- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QM-10 LCSD prepared with analytical batch due to insufficient sample for MS/MSD.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- S-04 The surrogate recovery for this sample is outside of established control limits possibly due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

MFG, INC.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 42055

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80501-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
17770 Cartwright Road
P.O. Box 30
Irvine, CA 92614-5950
Tel: (949) 253-2951
Fax: (949) 253-2954

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone: (415) 495-7110-FAX: (415) 495-7107

Seattle Office
9203 36th Avenue W.
Suite 101
Brynwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030229.4
PROJECT NAME: Sierra Pacific
SAMPLER (Signature): John Mills
METHOD OF SHIPMENT: Carrier

PROJECT MANAGER: Ed Cudi
CARRIERWAYBILL NO: N/A
DESTINATION: Alpha

PAGE: 1 OF: 5
DATE: 7/25/03

SAMPLES		ANALYSIS REQUEST													
Field Sample Identification	DATE	TIME	Matrix*	Preservation			Containers		Constituents/Method			Handling	Remarks		
				HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO			TEH 4.58 + M.D. DISCIVOL W/GR PVTAIS	HOLD
RP-3-GW	7/24	1120	AQ		X		X	U	6	1	X			X	A3071007-1
RP-3-GW	7/24	1120	AQ		X		X	F	6	1	X			X	
D6-1-GW	7/23	1000	AQ		X		X	U	6	1	X			X	2
D6-1-GW		1600	AQ		X		X	F	6	1	X			X	
D6-2-GW		1050	AQ		X		X	U	6	1	X			X	3
D6-2-GW		1050	AQ		X		X	F	6	1	X			X	
D6-3-GW		1135	AQ		X		X	U	6	1	X			X	4
D6-3-GW		1135	AQ		X		X	F	6	1	X			X	
D6-4-GW		1200	AQ		X		X	U	6	1	X			X	5
D6-4-GW		1200	AQ		X		X	F	6	1	X			X	

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	<u>MFG</u>		<u>Alpha</u>
		<u>S. Speaks</u>	<u>S. Speaks</u>
			<u>LABORATORY</u>

LABORATORY COMMENTS/CONDITION OF SAMPLES		RECEIVED BY:	
SIGNATURE	PRINTED NAME	SIGNATURE	PRINTED NAME

*KEY Matrix: AQ - aqueous MA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other
 CONTAINERS: P - plastic G - glass T - teflon B - brass OT - other
 FILTRATION: F - filtered U - unfiltered
 DISTRIBUTION: PINK - Field Copy YELLOW - Laboratory Copy WHITE - Return to Originator

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COC No. 42056

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Seattle Office
19203 36th Avenue W.
Suite 101
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Fax: (425) 921-4040

PROJECT NO: 030229.4 PROJECT NAME: Serra Pacific PAGE: 2 OF: 5
 SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Condi DATE: 7/25/03
 METHOD OF SHIPMENT: Carrier CARRIERWAYBILL NO.: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST			
Field Sample Identification	Sample		Preservation			Containers		Constituents/Method		Handling		Remarks	
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD	VOLUME (ml/oz)	TYPE*	NO.	TERMINAL & M.D. DESCRIBED	WENT BACK TO STANDARD		
D6-5-GW	7/22	1515 AW		X		X	U	1L	G	1	X	A3076007-6	
D6-5-GW		1515 AW		X		X	F	1L	G	1	X		
D6-6-GW		1545 AW		X		X	U	1L	G	1	X	7	
D6-6-GW		1545 AW		X		X	F	1L	G	1	X		
D6-7-GW		1625 AW		X		X	U	1L	G	1	X	8	
D6-7-GW	7/23	1625 AW		X		X	F	1L	G	1	X		
D6-8-GW		0930 AW		X		X	U	1L	G	1	X	9	
D6-8-GW		0930 AW		X		X	F	1L	G	1	X		
D6-9-GW		1015 AW		X		X	U	1L	G	1	X	10	
D6-9-GW		1015 AW		X		X	F	1L	G	1	X	Please re-verify	
TOTAL NUMBER OF CONTAINERS							(50)		LABORATORY COMMENTS/CONDITION OF SAMPLES				Cooler Temp:

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RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<u>John Mills</u>	<u>John Mills</u>	<u>MFG</u>	<u>J. Matthews</u>	<u>J. Matthews</u>	<u>Alpha LABORATORY</u>
<u>John Matthews</u>	<u>John Matthews</u>	<u>Alpha</u>	<u>S. Speake</u>	<u>S. Speake</u>	<u>Alpha LABORATORY</u>

*KEY Matrix: AQ - aqueous MA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
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ANALYSIS

COC No. 42857

PROJECT NO: 630229.4 PROJECT NAME: Serra Pacific PAGE: 3 OF: 5
 SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Conti DATE: 7/25/03
 METHOD OF SHIPMENT: carrier CARRIER/WAYBILL NO: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST						
Field Sample Identification	Sample		Preservation			Containers			Constituents/Method		Handling		Remarks			
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE	NO.	TERPENOIDS	4 M.C. DISTILLED WATER METALS		HOLD	RUSH	STANDARD
D6-10-GW	7/23	1045 AQ			X	X	U	1L	6	1	X				X	A307607 - 11
D6-10-GW		1045 AQ			X	X	F	1L	6	1	X				X	
D6-11-GW		1105 AQ			X	X	U	1L	6	1	X				X	12
D6-11-GW		1105 AB			X	X	F	1L	6	1	X				X	
D6-12-GW		1130 AQ			X	X	U	1L	6	1	X				X	13
D6-13-GW		1130 AQ			X	X	F	1L	6	1	X				X	
D6-13-GW		1410 AQ			X	X	U	1L	6	1	X				X	14
D6-13-GW		1410 AQ			X	X	F	1L	6	1	X				X	
D6-14-GW		1445 AQ			X	X	U	1L	6	1	X				X	15
D6-14-GW		1445 AB			X	X	F	1L	6	1	X				X	
TOTAL NUMBER OF CONTAINERS <u>(50)</u>										LABORATORY COMMENTS/CONDITION OF SAMPLES				Cooler Temp:		

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 MFG, Inc.

RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<i>John Mills</i>	John Mills	MFG	<i>J. Conti</i>	J. Conti	MFG
<i>John Mills</i>	John Mills	Alpha	<i>S. Speaks</i>	S. Speaks	Alpha LABORATORY

*KEY: Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
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 Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030279.4
PROJECT NAME: Sierra Pacific
SAMPLER (Signature): John Miller
METHOD OF SHIPMENT: CARRIER

CARRIERWAYBILL NO: NA
PROJECT MANAGER: Ed Conti
CARRIERYWAYBILL NO: NA

PAGE: 4 OF: 5
DATE: 7/25/03
DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST							
Field Sample Identification	Sample		Preservation			Containers		Constituents/Method			Handling		Remarks				
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TEPH diesel + m.d. Dissolved		Other Metals	HOLD	RUSH	STANDARD
Dk-15-GW	7/23	1525	AG				X	U	1L	G	1	X					A307607-16
Dk-15-GW		1525	AG		X		X	F	1L	G	1		X				
Dk-16-GW		1550	AG		X		X	U	1L	G	1	X					17
Dk-16-GW		1550	AG		X		X	F	1L	G	1	X					
Dk-17-GW		1630	AG		X		X	U	1L	G	1	X					18
Dk-17-GW		1630	AG		X		X	F	1L	G	1	X					
Dk-18-GW	7/24	0920	AG		X		X	U	1L	G	1	X					19
Dk-18-GW		0930	AG		X		X	F	1L	G	1	X					
Dk-19-GW		0945	AG		X		X	U	1L	G	1	X					20
Dk-19-GW		0945	AG		X		X	F	1L	G	1	X					

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LABORATORY COMMENTS/CONDITION OF SAMPLES
Cooler Temp:

TOTAL NUMBER OF CONTAINERS (50)

RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<u>John Miller</u>	<u>John Miller</u>	<u>MFG</u>	<u>J. Matthews</u>	<u>J. Matthews</u>	<u>Alpha LABORATORY</u>
<u>John Matthews</u>	<u>John Matthews</u>	<u>Alpha</u>	<u>S. Specko</u>	<u>S. Specko</u>	<u>Alpha LABORATORY</u>

*KEY Matrix: AQ - aqueous MA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered V - unfiltered
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Phone (415) 495-7110 - FAX (415) 495-7107

PROJECT NO: 636279.4 PROJECT NAME: Serra Pacific PAGE: 5 OF: 5
 SAMPLER (Signature): John Mills PROJECT MANAGER: Ed Condi DATE: 7/25/03
 METHOD OF SHIPMENT: CARRIER CARRIER/WAYBILL NO: NA DESTINATION: Alpha

SAMPLES										ANALYSIS REQUEST							
Field Sample Identification	Sample		Preservation			Containers			Constituents/Method		Handling		Remarks				
	DATE	TIME	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (m/oz)	TYPE†	NO.	TEPH diesel	* motor oil		Wear Metals	HOLD	RUSH	STANDARD
D6-20-GW	7/24	0950	AG			X	U	1L	G	1	X					X	A307607-21
D6-20-GW		0950	AG	X		X	F	1L	G	1		X				X	
D6-21-GW		1010	AG			X	U	1L	G	1	X					X	22
D6-21-GW		1010	AG	X		X	F	1L	G	1		X				X	
D6-22-GW		1030	AG	X		X	U	1L	G	1	X					X	23
D6-22-GW		1030	AG	X		X	F	1L	G	1		X				X	
D6-23-GW		1040	AG	X		X	U	1L	G	1	X					X	24
D6-23-GW		1040	AG	X		X	F	1L	G	1		X				X	
D6-24-GW		1100	AG	X		X	U	1L	G	1	X					X	25
D6-24-GW		1100	AG	X		X	F	1L	G	1		X				X	

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RELINQUISHED BY:			RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	SIGNATURE	PRINTED NAME	COMPANY
<i>John Mills</i>	John Mills	MFG	<i>J. Matthews</i>	J. Matthews	Alpha Laboratory
<i>John Matthews</i>	John Matthews	Alpha	<i>S. Speck</i>	S. Speck	Alpha Laboratory

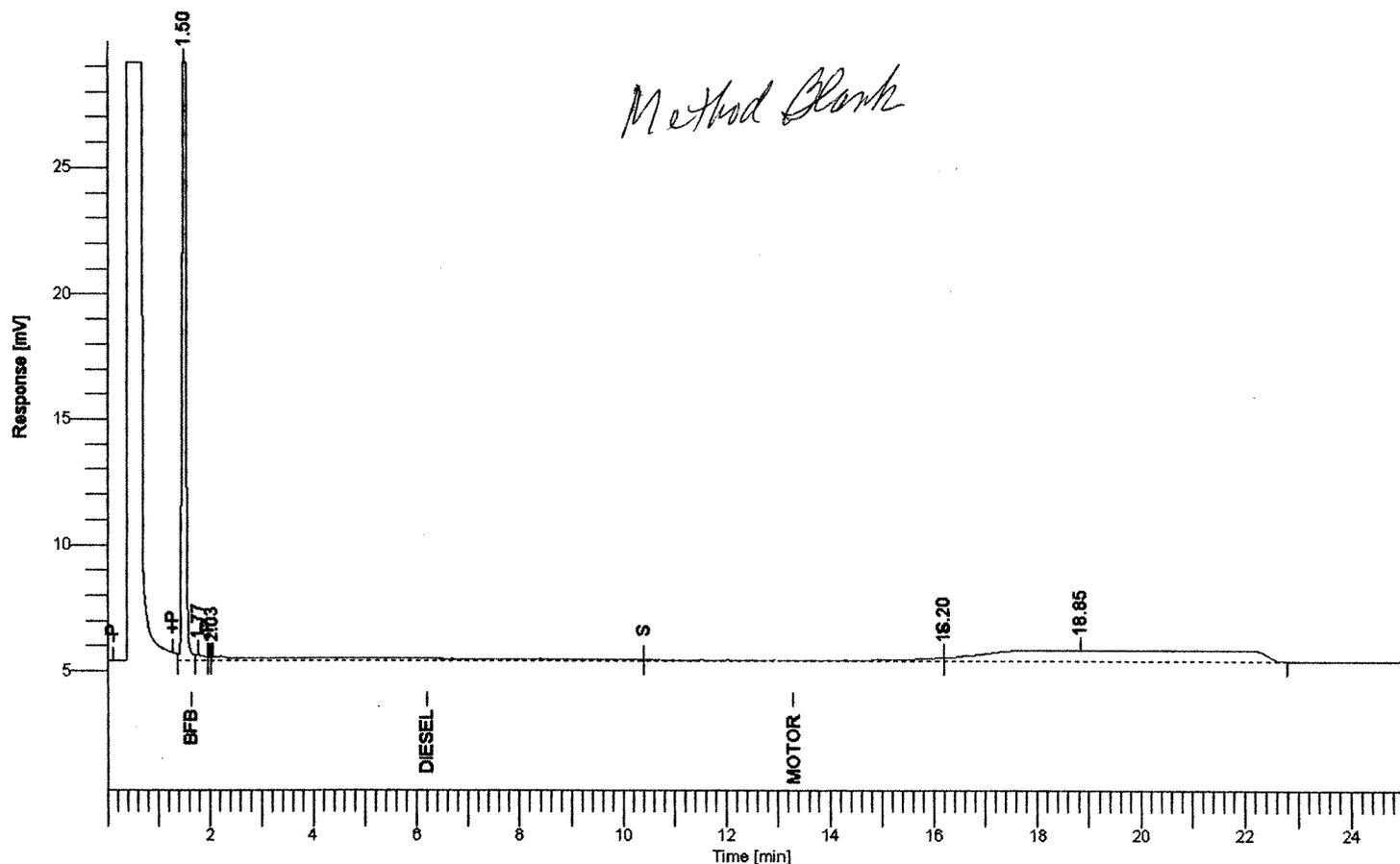
LABORATORY COMMENTS/CONDITION OF SAMPLES
 TOTAL NUMBER OF CONTAINERS (50)

COOLER TEMP:

*KEY Matrix: AG - aqueous MA - nonaqueous SD - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK Field Copy YELLOW Laboratory Copy WHITE Return to Originator

Software Version : 6.1.2.0-1:DI9 Date Acquisition Time : 7/15/03 4:22:38
 Sample Name : AG32826-BLKI Data Acquisition Time : 7/15/03 4:22:38 AM
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 29 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT583.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072803.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	8.782	196757	55223
2	1.77		0.003	2933	262
3	2.03	Diesel	0.334	44954	151
4	16.20	Motor Oil	-0.167	17962	150
5	18.85		0.147	147482	434
			9.100	410087	56220

Report stored in ASCII file:
 C:\Archive_PenExe\Stats_082203\Data\ATDAT583.TX0

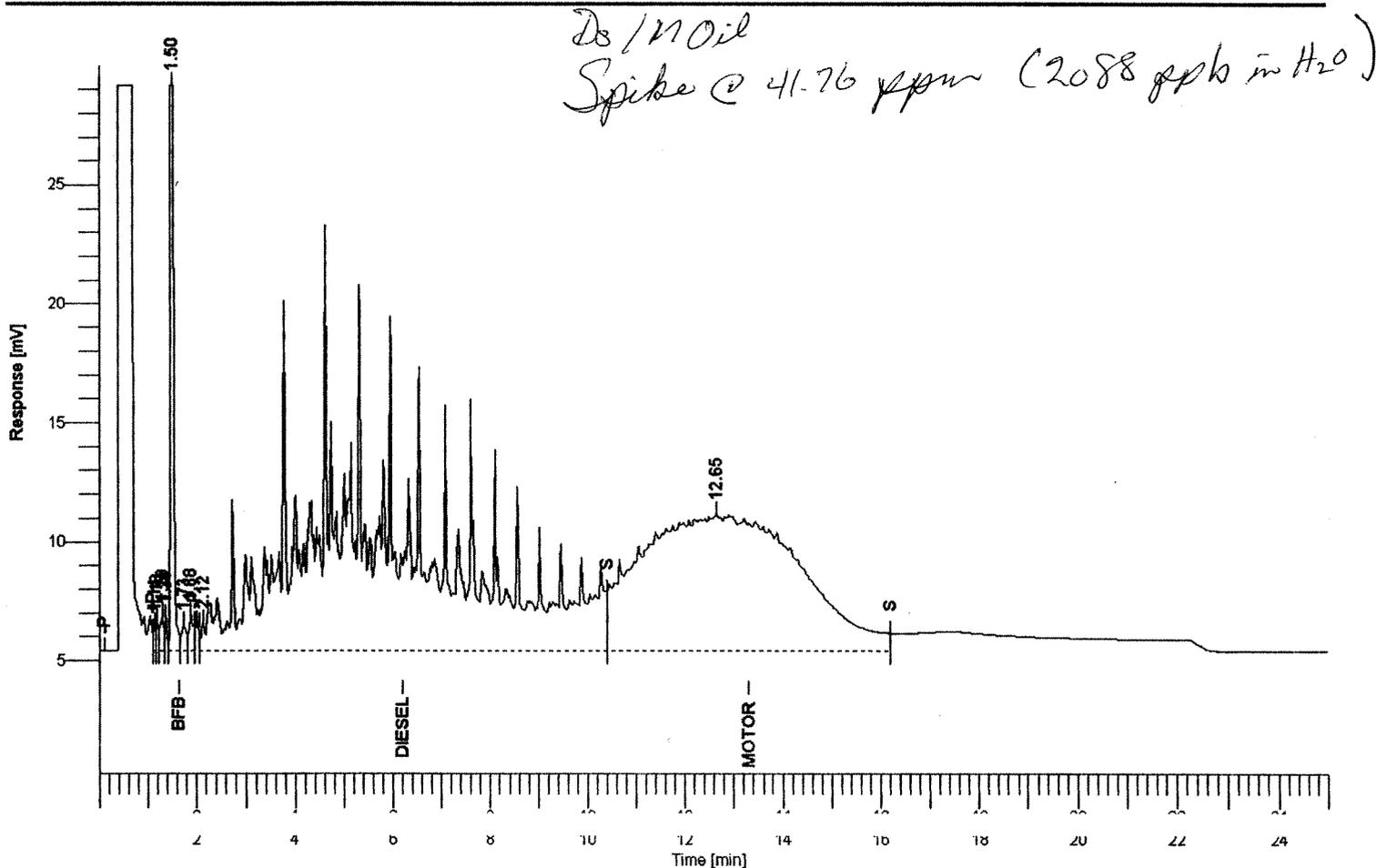
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Software Version : 6.1.2.0.1:D19 Date : 9/5/03 2:24:30
 Sample Name : AG32826-BS1 Data Acquisition Time : 7/29/03 5:03:30 AM
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000 Channel : A
 Cycle : 30 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT584.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072803.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.14		0.003	2702	970
2	1.18		0.004	4246	1130
3	1.29		0.008	7573	1333
4	1.36		0.005	4745	1288
5	1.50	BFB	9.478	212860	60702
6	1.73		0.007	7101	1065
7	1.88		0.009	9270	1453
8	2.12	Diesel	41.192	1700448	1129
9	12.65	Motor Oil	45.229	1313359	5724
			95.934	3262303	74793

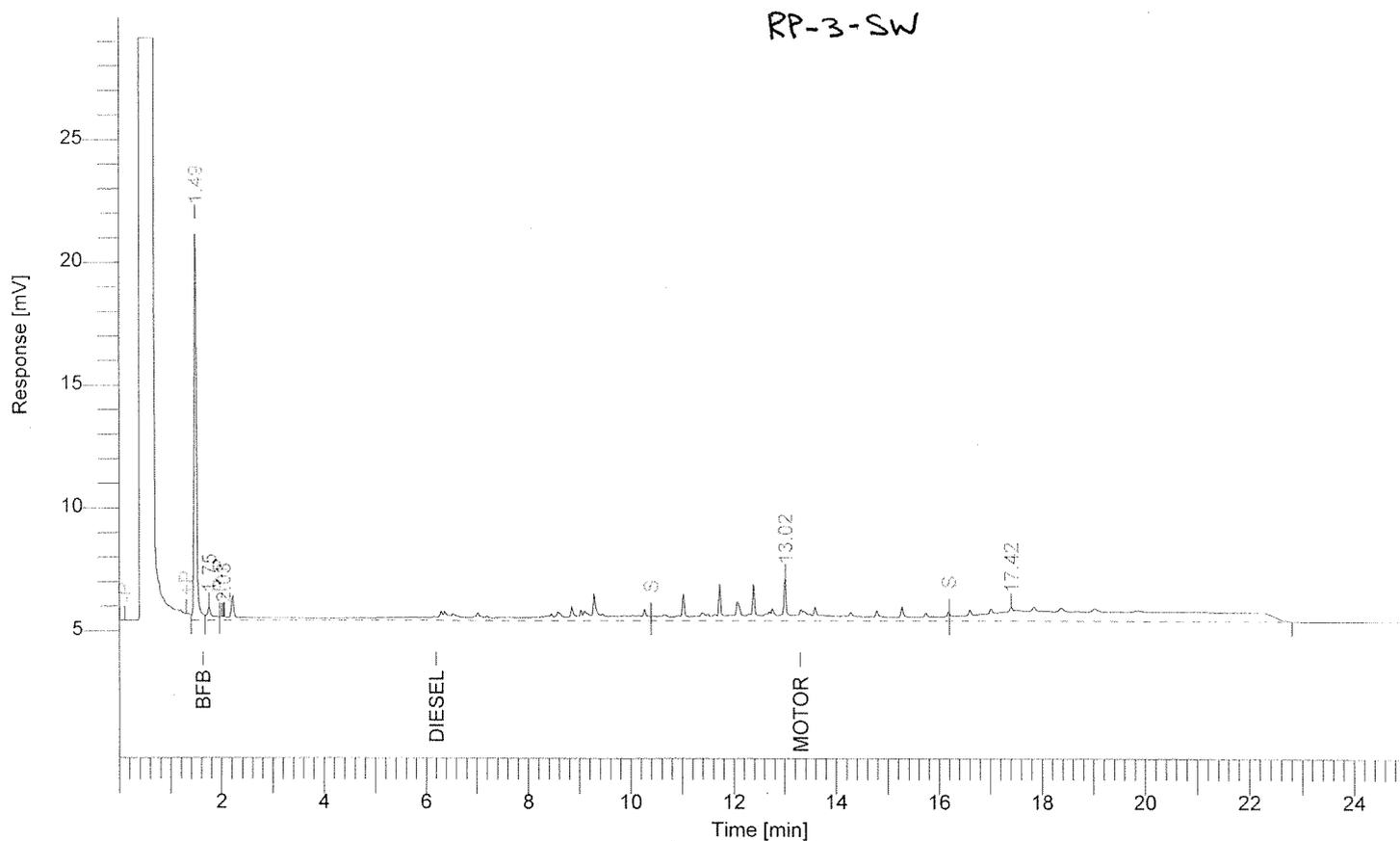
Report stored in ASCII file:
 C:\Archive_PenExe\Stats_082203\Data\ATDAT584.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-01
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11

Date : 9/5/03 2:28:47 PM
 Data Acquisition Time : 7/29/03 10:32:08 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT602.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	2.268	50103	14345
2	1.75		0.004	3762	500
3	2.03	Diesel	1.133	77545	148
4	13.02	Motor Oil	2.338	90612	1734
5	17.42		0.141	141323	574
			5.884	363346	17301

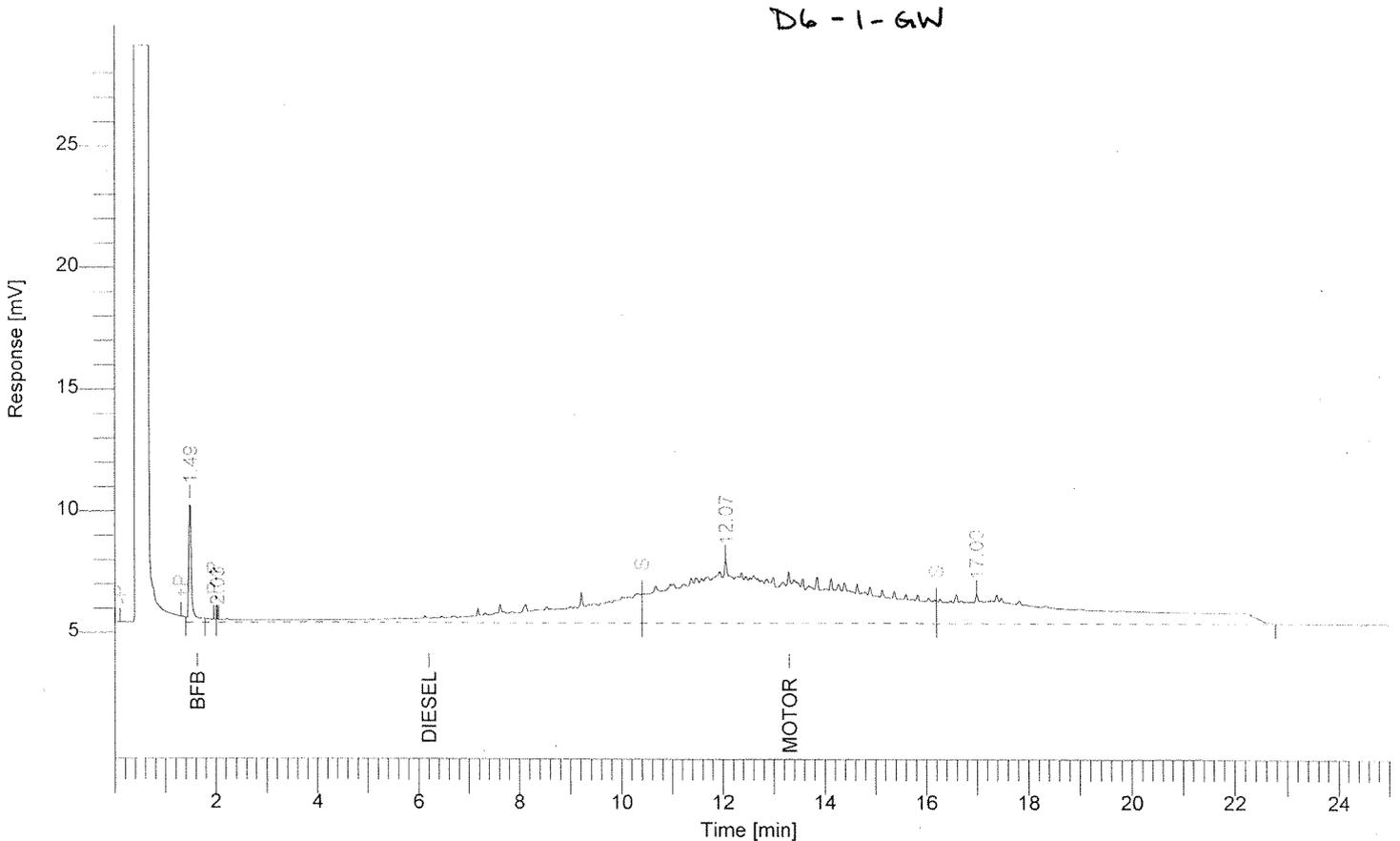
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\ATDAT602.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-02
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 12

Date : 9/5/03 2:28:54 PM
 Data Acquisition Time : 7/29/03 11:12:31 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT603.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	0.845	19101	4586
2	2.03	Diesel	3.316	166537	115
3	12.07	Motor Oil	17.040	514207	2643
4	17.00		0.235	235299	1225
			21.437	935143	8570

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\ATDAT603.TX0

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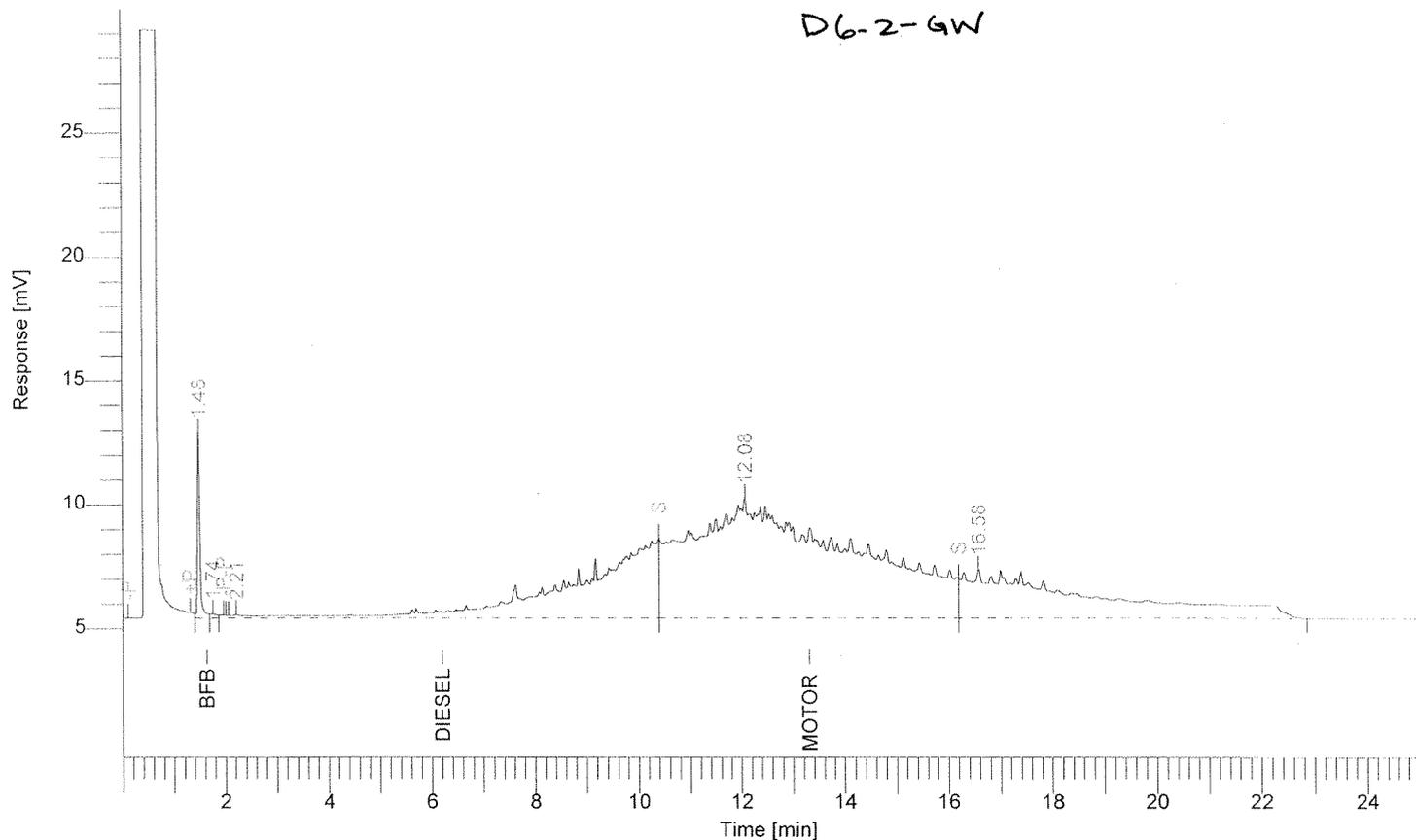
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-03
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 13

Date : 9/5/03 2:29:01 PM
 Data Acquisition Time : 7/29/03 11:52:52 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT604.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.48	BFB	1.077	24129	6663
2	1.74		0.002	1675	176
3	2.21	Diesel	7.825	350184	144
4	12.08	Motor Oil	35.711	1045442	4839
5	16.58		0.335	334850	1958
			44.950	1756280	13780

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\ATDAT604.TX0

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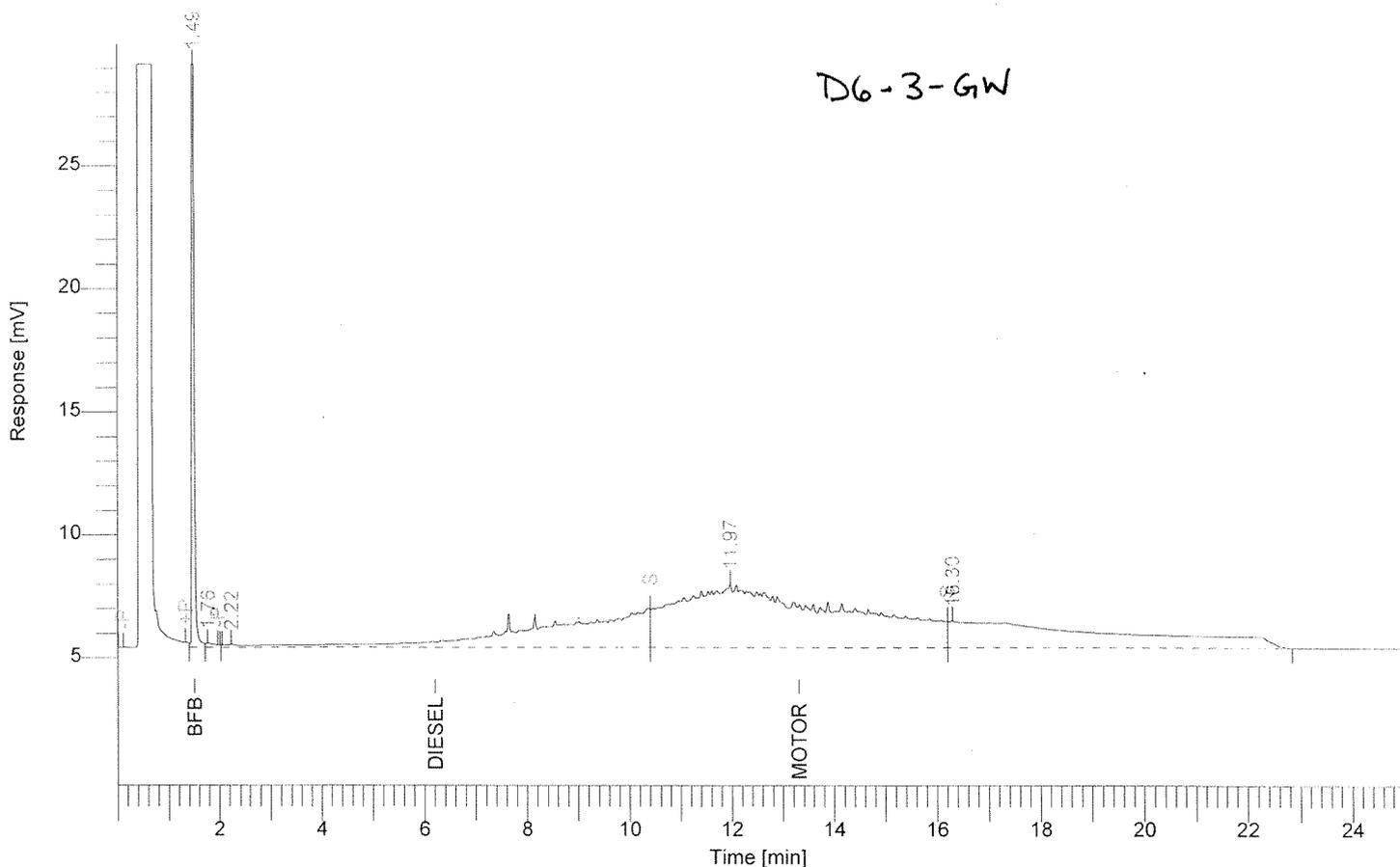
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-04
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 19

Date : 9/5/03 1:41:39 PM
 Data Acquisition Time : 7/30/03 3:56:03 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT610.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3-20030729-153709.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	4.255	86439	26582
2	1.76		0.002	2306	166
3	2.22	Diesel	4.707	228736	118
4	11.97	Motor Oil	17.258	590147	2588
5	16.30		0.253	252892	1103
			26.475	1160521	30557

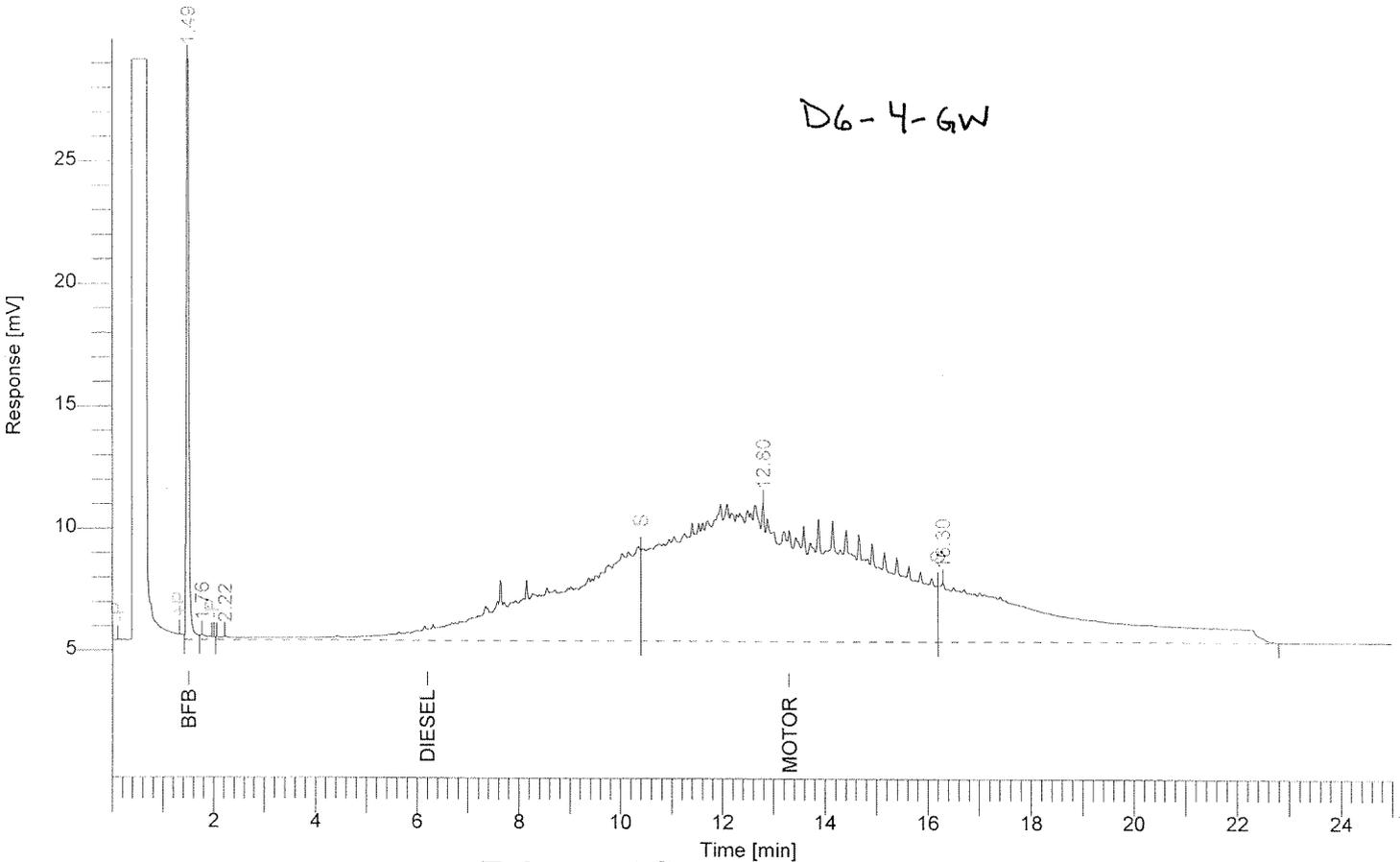
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\ATDAT610.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-05
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 20

Date : 9/5/03 1:41:47 PM
 Data Acquisition Time : 7/30/03 4:36:41 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT611.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3-20030729-153709.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	4.039	82078	25019
2	1.76		0.003	2817	193
3	2.22	Diesel	11.053	505714	139
4	12.80	Motor Oil	40.394	1375161	5664
5	16.30		0.408	408237	2426
			55.898	2374007	33441

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\ATDAT611.TX0

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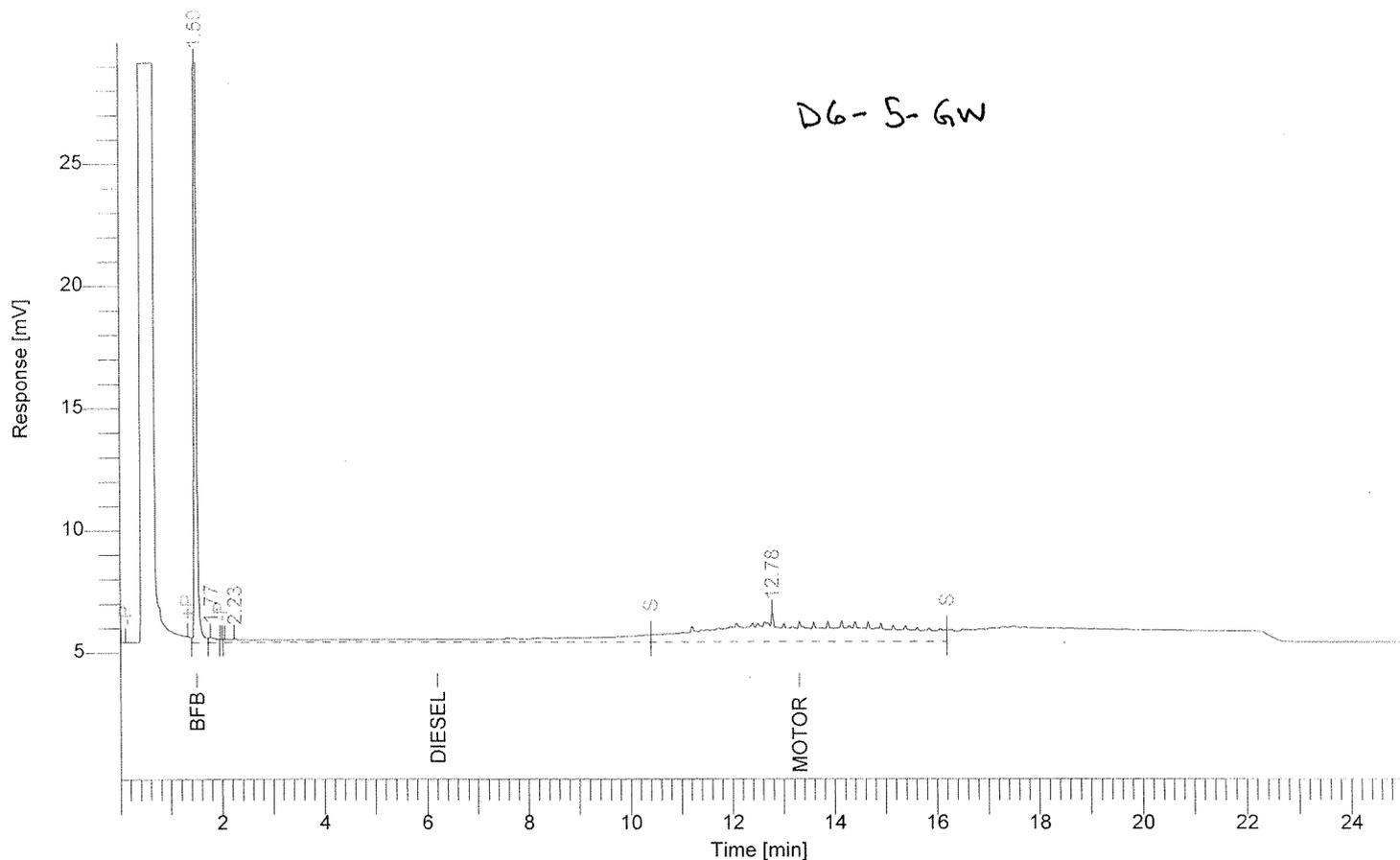
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-06
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 21

Date : 9/5/03 1:42:01 PM
 Data Acquisition Time : 7/30/03 5:17:15 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT612.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3-20030729-153709.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	5.688	116339	36994
2	1.77		0.002	2082	194
3	2.23	Diesel	0.848	60179	135
4	12.78	Motor Oil	5.257	182448	1135
			11.795	361048	38458

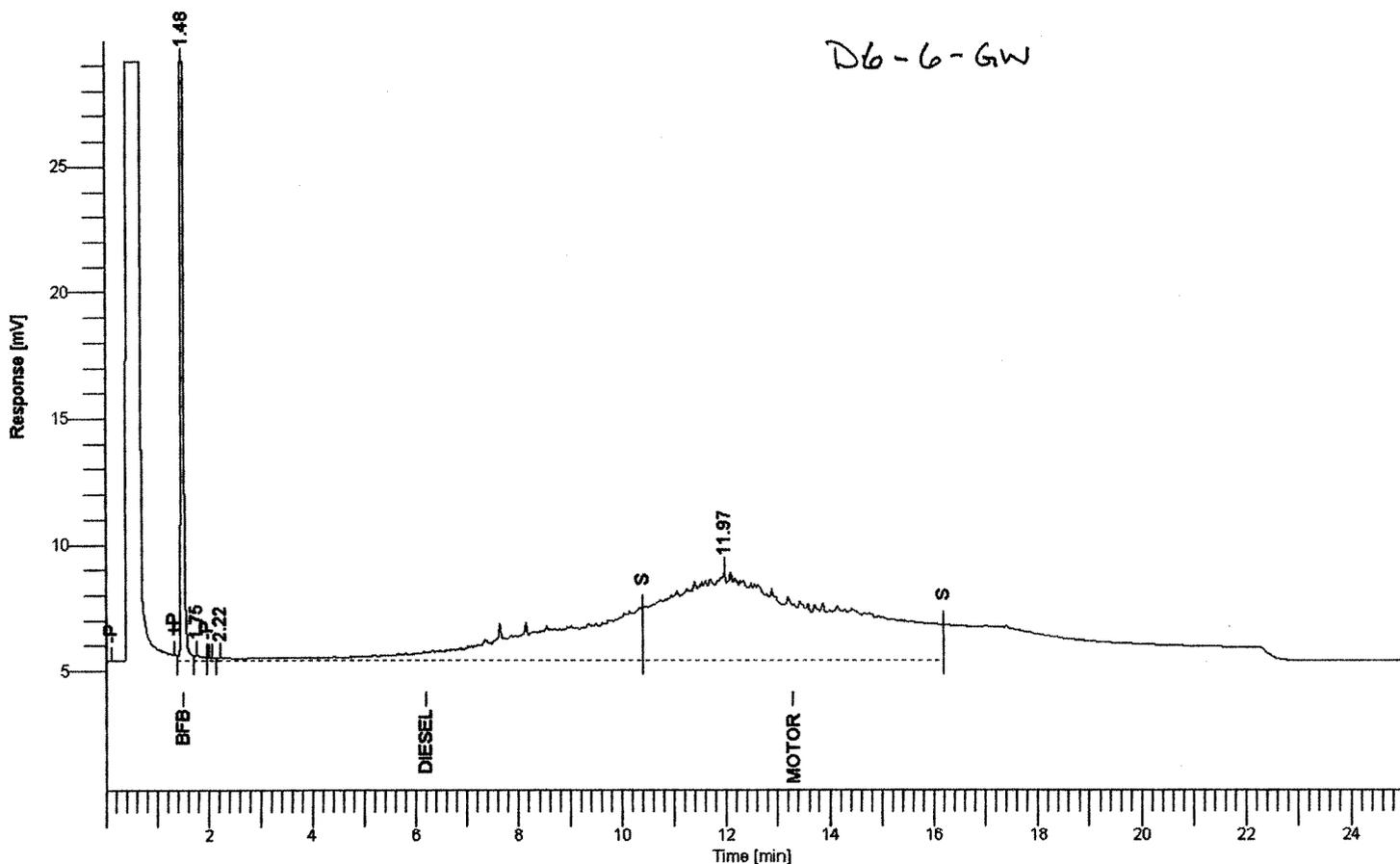
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Software Version : 6.1.2.0.1:D19      Date : 9/5/03 2:20:41
Sample Name      : A307607-07         Data Acquisition Time : 7/30/03 5:57:54
Instrument Name  : DsMo                AM
Rack/Vial       : 0/0
Sample Amount   : 1.000000            Channel : A
Cycle          : 22                   Operator : marvin
                                           Dilution Factor : 1.000000
    
```

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat613.rst
 Sequence File :
 C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3-20030729-153709.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.48	BFB	7.075	146882	45722
2	1.75		0.002	2451	215
3	2.22	Diesel	6.306	298556	139
4	11.97	Motor Oil	22.932	782798	3529
			36.315	1230688	49605

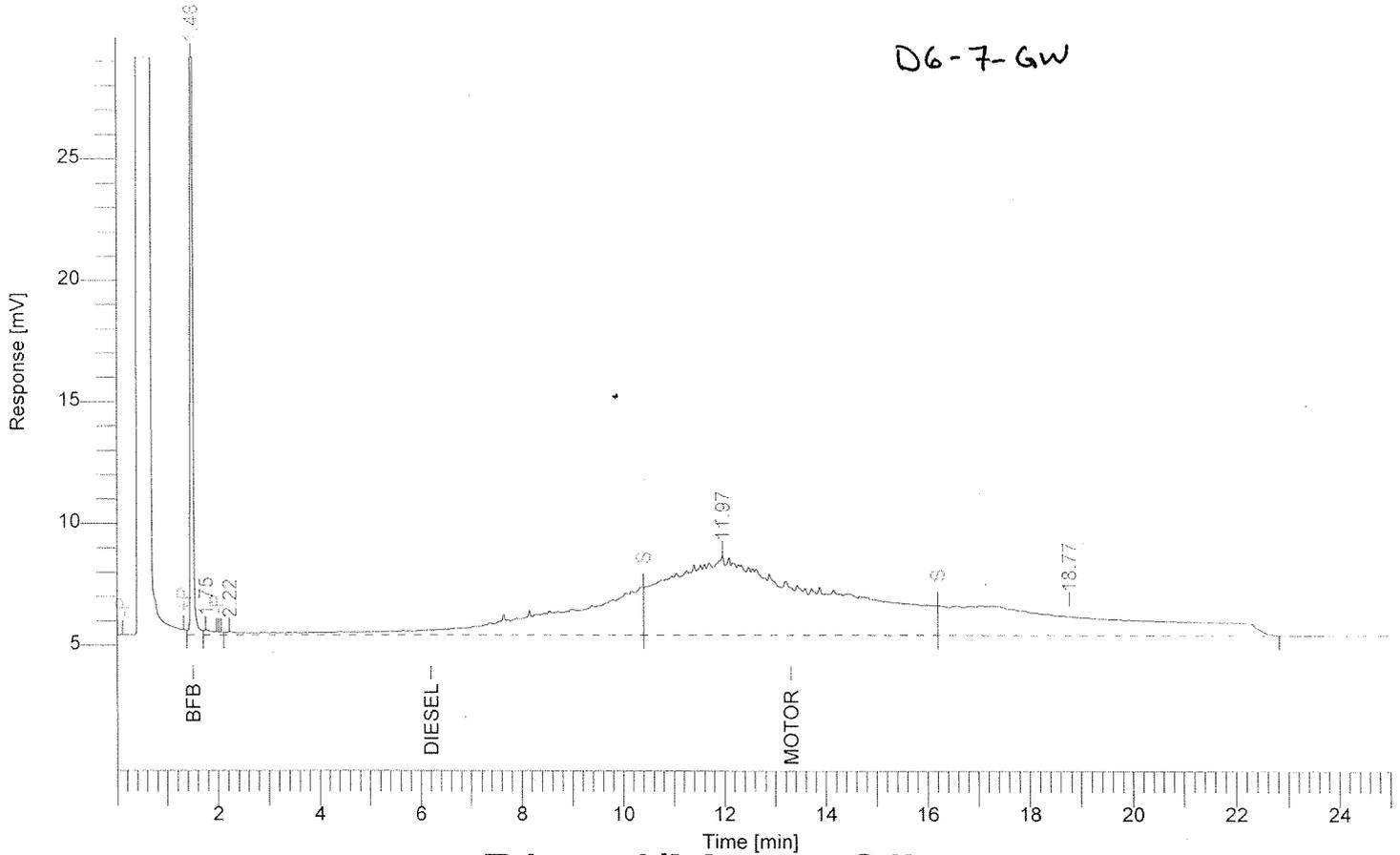
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-08
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 23

Date : 9/5/03 1:42:37 PM
 Data Acquisition Time : 7/30/03 6:38:28 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\ATDAT614.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_072903_3-20030729-153709.idx



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.48	BFB	5.978	122607	38417
2	1.75		0.003	3231	192
3	2.22	Diesel	4.924	238223	124
4	11.97	Motor Oil	20.636	704858	3291
5	18.77		0.293	292653	761
			31.834	1361572	42785

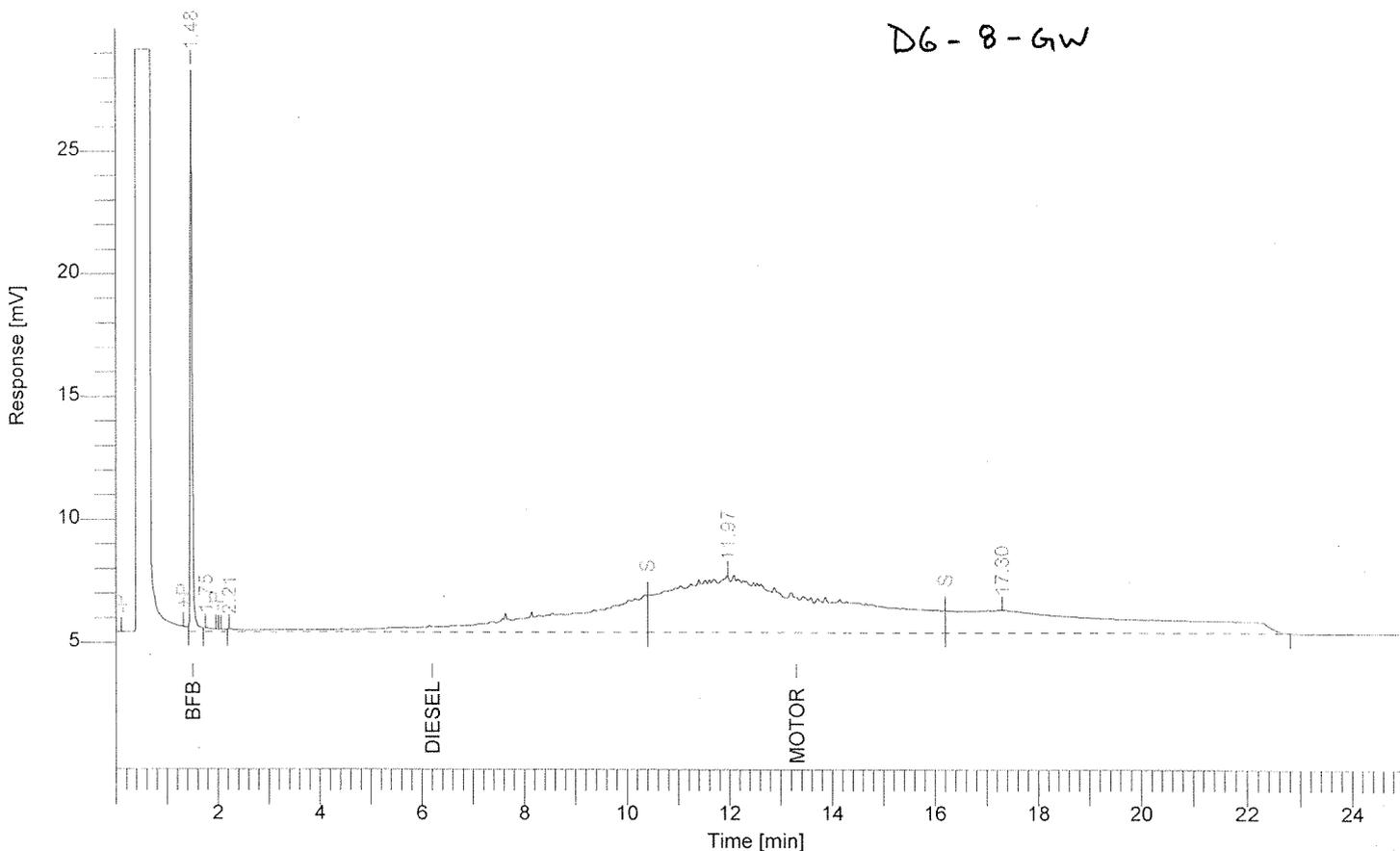
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-09
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 9

Date : 9/5/03 1:55:49 PM
 Data Acquisition Time : 7/30/03 6:14:46 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat631.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.48	BFB	3.059	62739	19742
2	1.75		0.003	3338	161
3	2.21	Diesel	3.922	194470	119
4	11.97	Motor Oil	15.101	516889	2336
5	17.30		0.243	242672	926
			22.328	1020108	23283

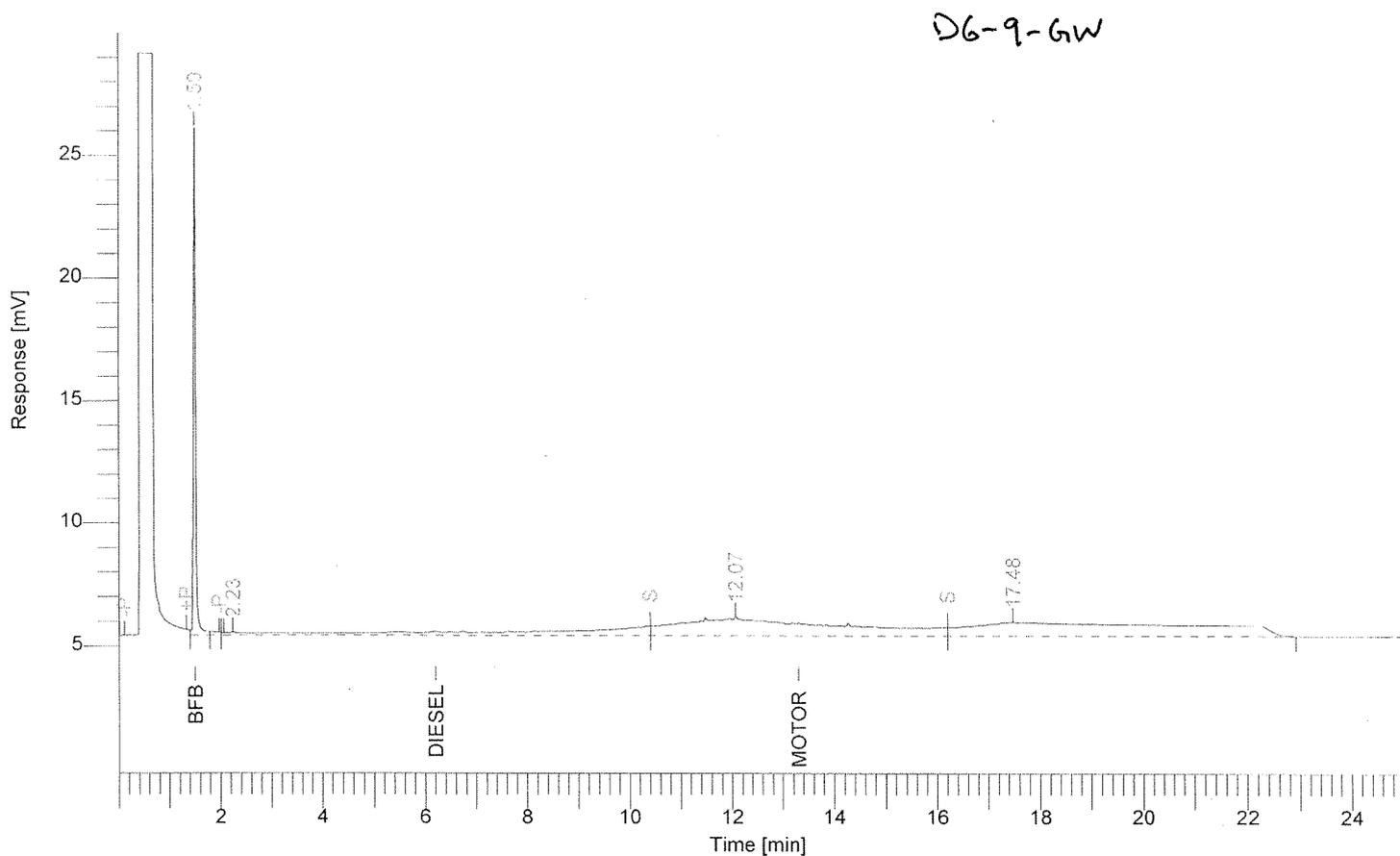
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-10
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 10

Date : 9/5/03 1:55:59 PM
 Data Acquisition Time : 7/30/03 6:55:23 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat632.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	2.832	58375	17413
2	2.23	Diesel	1.117	71929	127
3	12.07	Motor Oil	4.647	161716	767
4	17.48		0.173	172969	552
			8.770	464989	18859

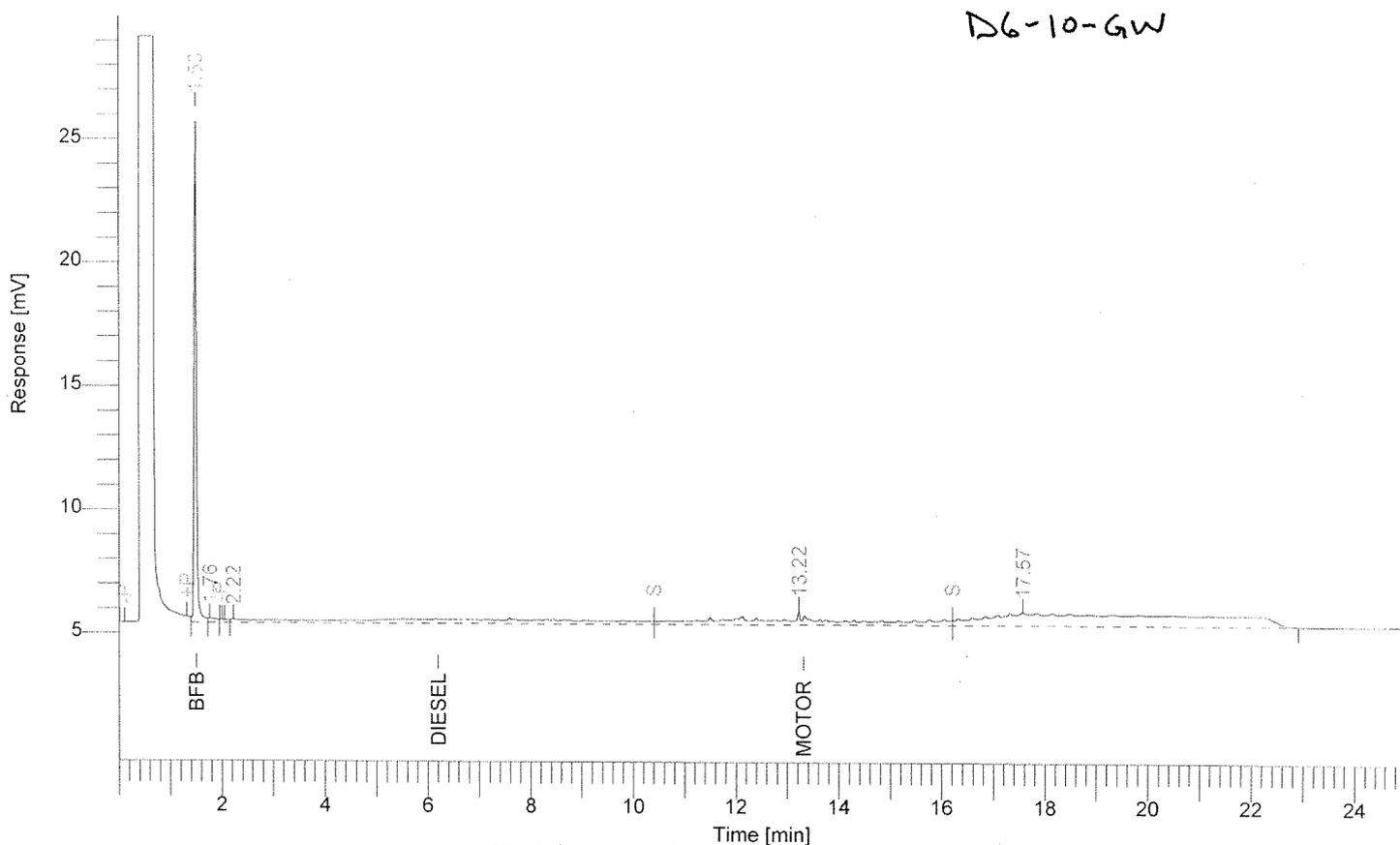
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-11
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 11

Date : 9/5/03 1:56:06 PM
 Data Acquisition Time : 7/30/03 7:35:53 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat633.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	2.953	60691	17562
2	1.76		0.002	1910	166
3	2.22	Diesel	0.900	62436	131
4	13.22	Motor Oil	1.567	57002	566
5	17.57		0.154	154029	539
			5.576	336068	18964

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat633.TX0

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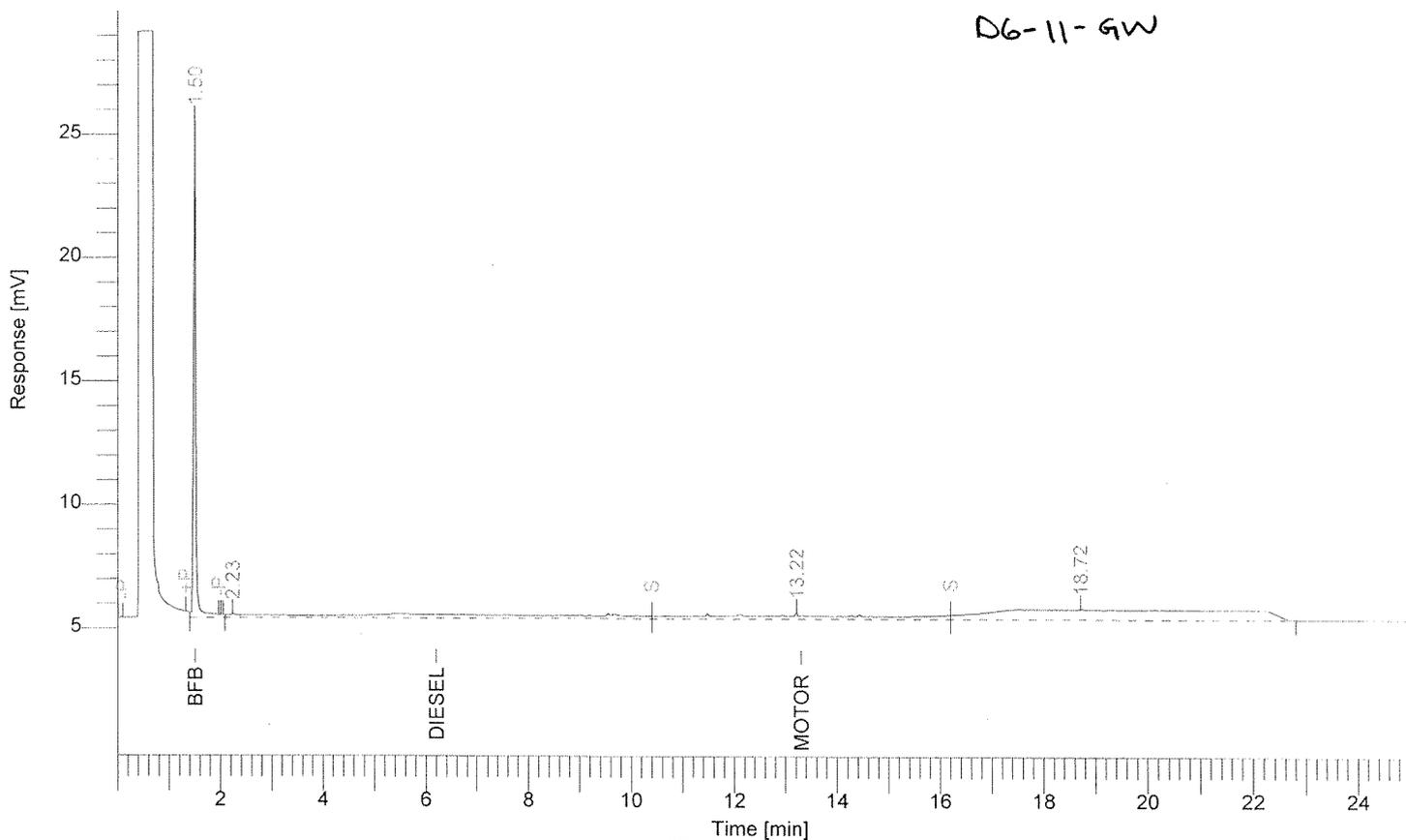
SEP 11 2003

MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-12
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 12

Date : 9/5/03 1:56:15 PM
 Data Acquisition Time : 7/30/03 8:16:31 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat634.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	2.893	59541	16799
2	2.23	Diesel	0.743	55578	137
3	13.22	Motor Oil	1.092	40839	244
4	18.72		0.139	139484	415
			4.867	295442	17595

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat634.TX0

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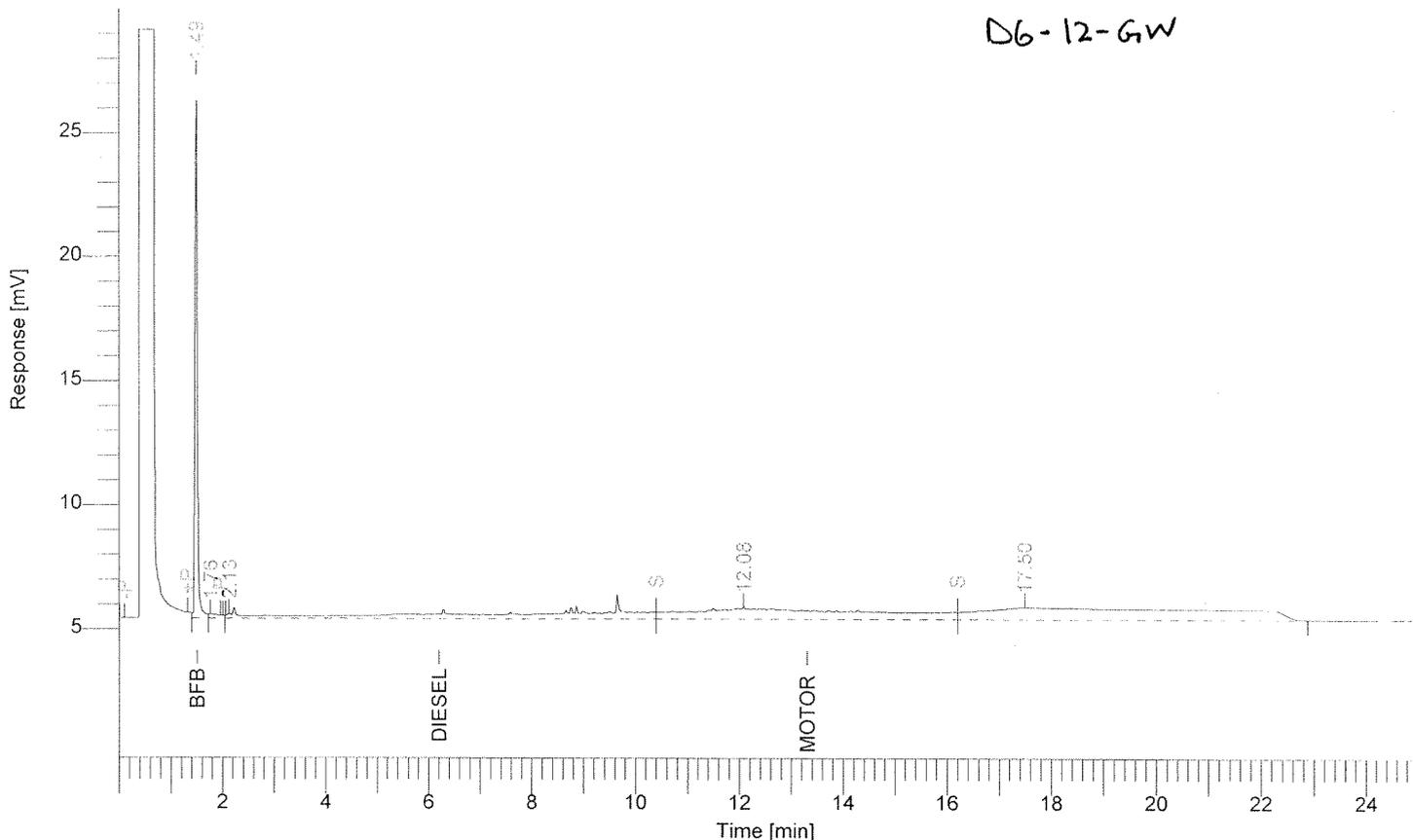
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MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-13
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 13

Date : 9/5/03 1:56:23 PM
 Data Acquisition Time : 7/30/03 8:57:01 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat635.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	3.116	63833	18663
2	1.76		0.003	2640	176
3	2.13	Diesel	1.421	85201	186
4	12.08	Motor Oil	3.208	112771	490
5	17.50		0.156	156145	499
			7.903	420590	20014

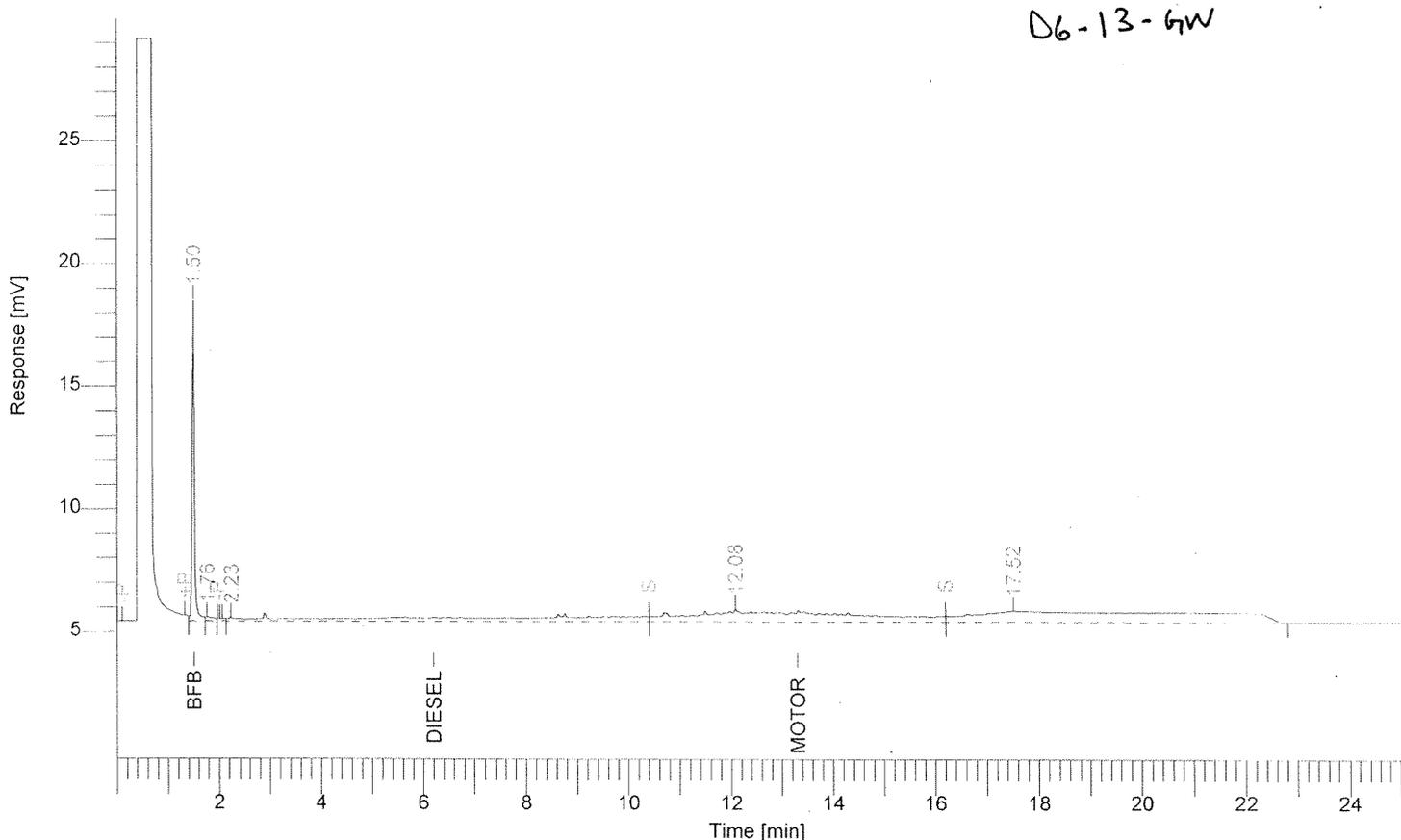
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 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-14
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 14

Date : 9/5/03 1:56:33 PM
 Data Acquisition Time : 7/30/03 9:37:42 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat636.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	1.824	39473	11119
2	1.76		0.002	1898	169
3	2.23	Diesel	1.001	66843	136
4	12.08	Motor Oil	2.956	104207	539
5	17.52		0.143	143386	468
			5.925	355806	12431

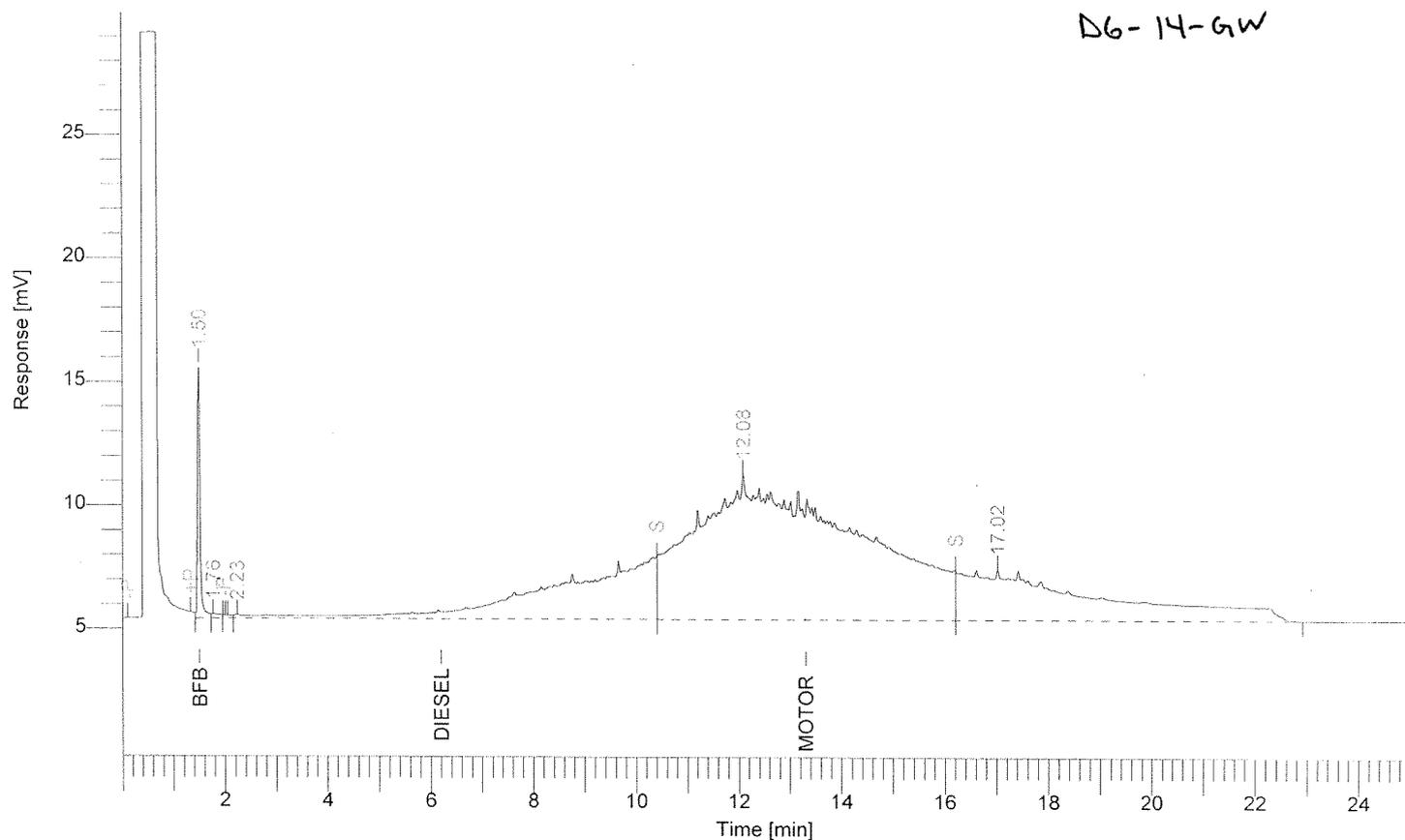
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-15
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 15

Date : 9/5/03 1:56:41 PM
 Data Acquisition Time : 7/30/03 10:18:18 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat637.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	1.549	34465	9478
2	1.76		0.002	1972	172
3	2.23	Diesel	7.336	343535	145
4	12.08	Motor Oil	37.389	1273254	5910
5	17.02		0.380	379917	2072
			46.656	2033142	17778

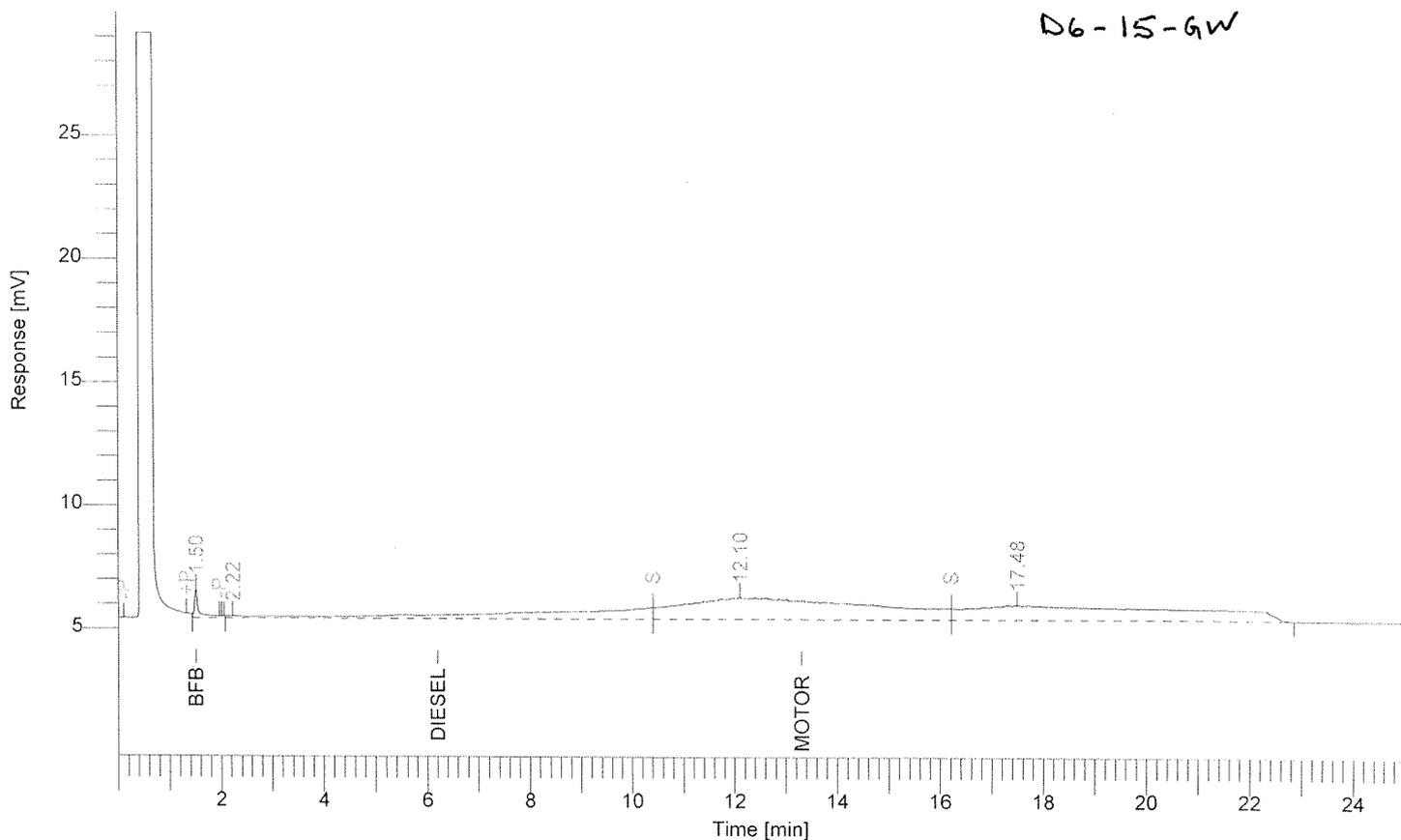
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 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-16@10X
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 16

Date : 9/5/03 1:56:52 PM
 Data Acquisition Time : 7/30/03 10:58:59 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat638.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	0.012	7576	1134
2	2.22	Diesel	1.519	89475	105
3	12.10	Motor Oil	6.584	227554	911
4	17.48		0.182	181556	601
			8.297	506161	2751

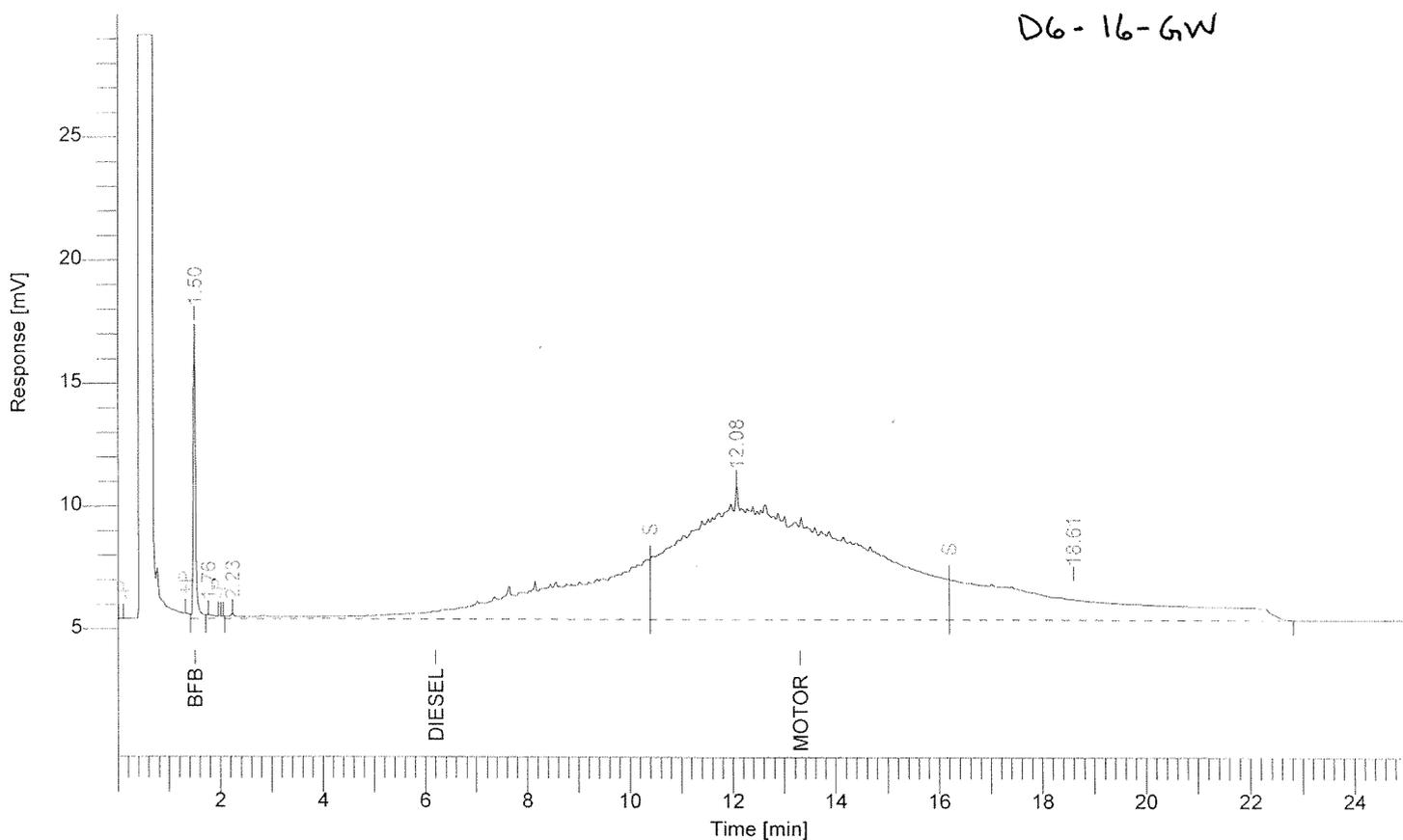
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 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-17
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 17

Date : 9/5/03 1:57:01 PM
 Data Acquisition Time : 7/30/03 11:39:36 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat639.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	1.650	36295	10832
2	1.76		0.002	2492	159
3	2.23	Diesel	7.084	332547	195
4	12.08	Motor Oil	33.555	1143240	5530
5	18.61		0.314	314100	817
			42.606	1828673	17534

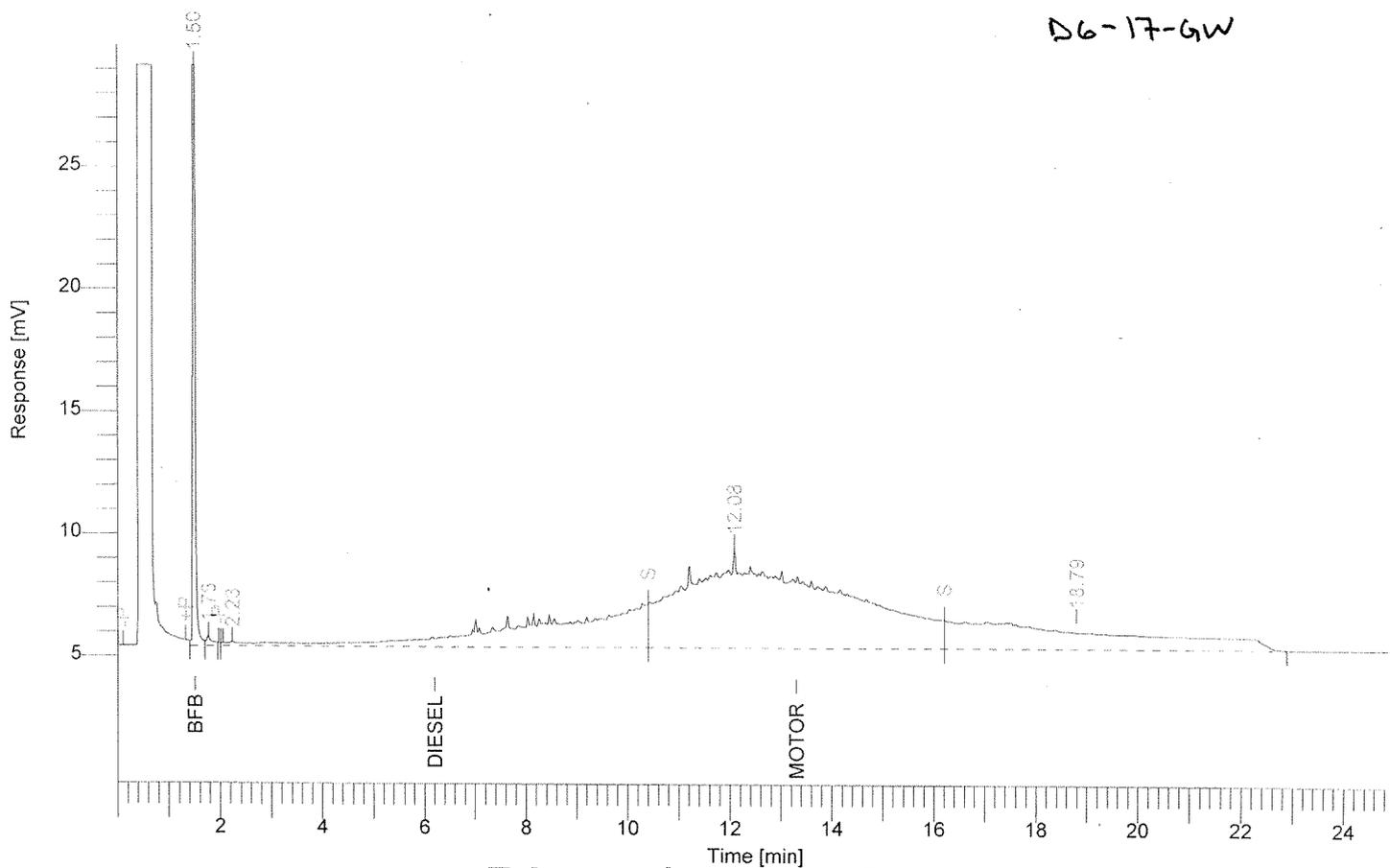
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-18
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 21

Date : 9/5/03 1:57:32 PM
 Data Acquisition Time : 7/31/03 2:22:02 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat643.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	4.599	93468	28699
2	1.76		0.003	2986	361
3	2.23	Diesel	5.712	272642	162
4	12.08	Motor Oil	23.410	799011	4062
5	18.79		0.265	264986	674
			33.989	1433092	33958

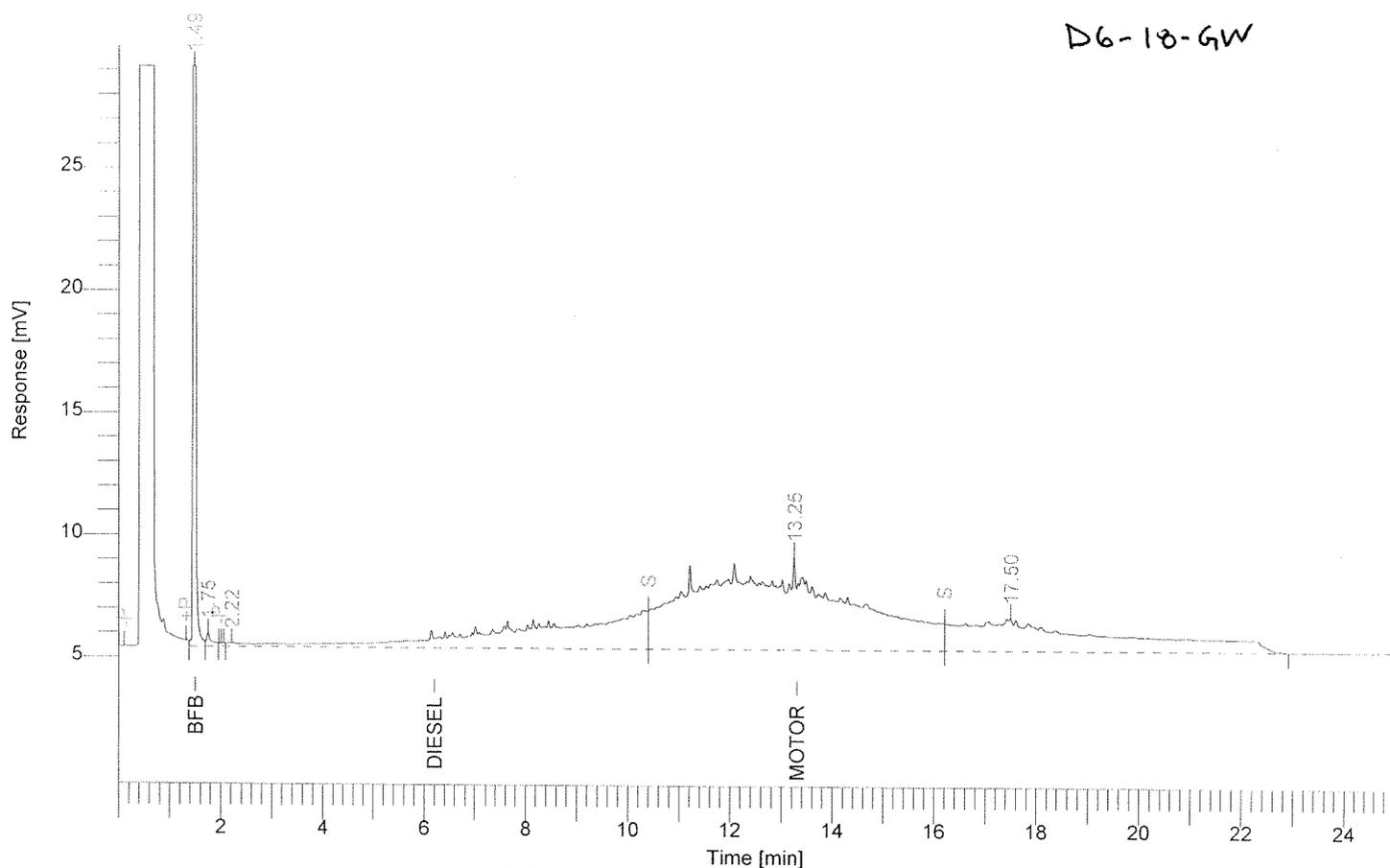
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-19
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 22

Date : 9/5/03 1:57:44 PM
 Data Acquisition Time : 7/31/03 3:02:41 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat644.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	7.244	150706	46001
2	1.75		0.004	3846	525
3	2.22	Diesel	5.345	256606	164
4	13.25	Motor Oil	21.562	736304	3843
5	17.50		0.277	276949	1351
			34.432	1424410	51884

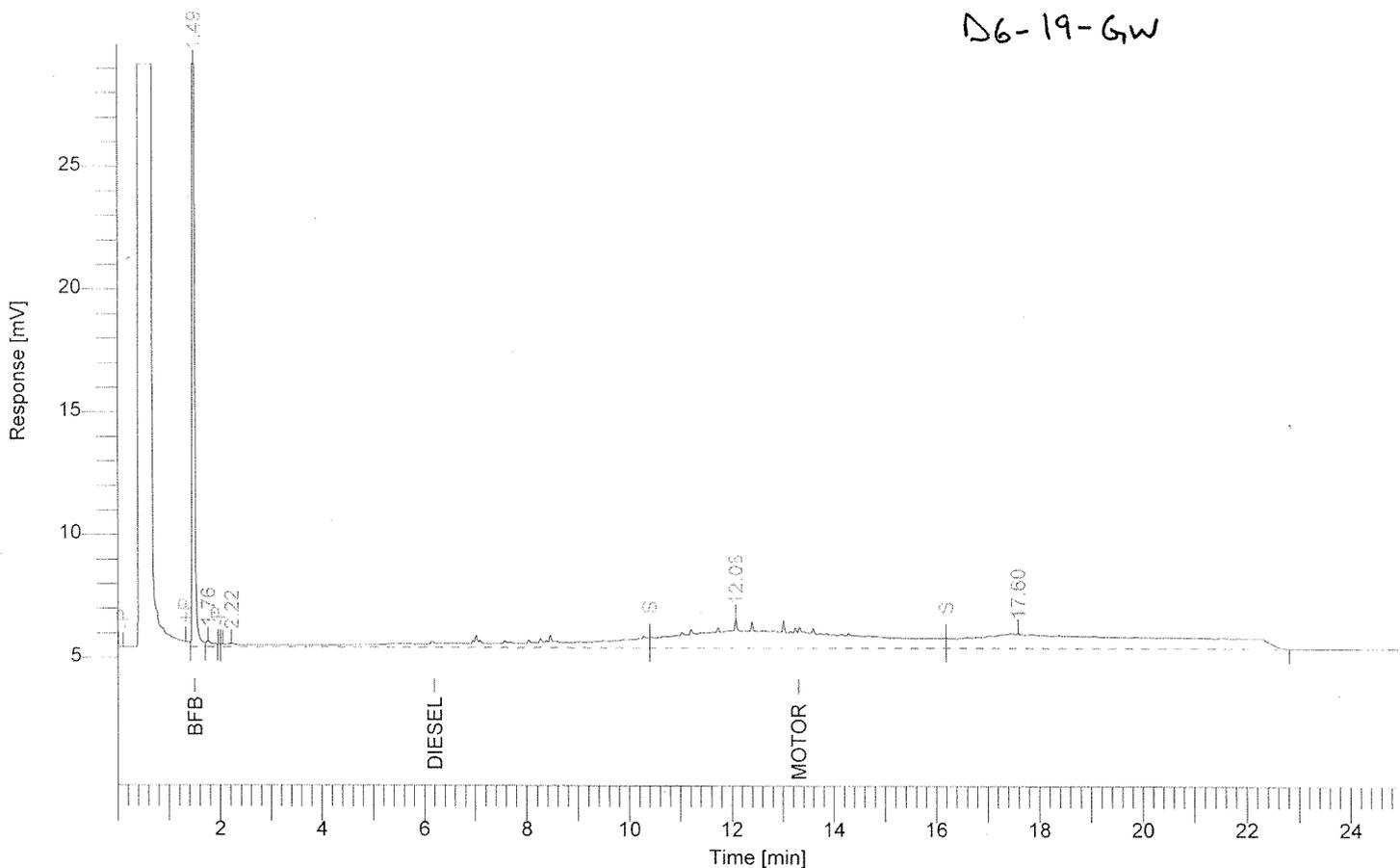
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat644.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-20
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 23

Date : 9/5/03 1:57:57 PM
 Data Acquisition Time : 7/31/03 3:43:15 AM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat645.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073003.seq



D6-19-GW

Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.49	BFB	5.617	114815	34675
2	1.76		0.002	2450	249
3	2.22	Diesel	1.403	84439	147
4	12.08	Motor Oil	5.622	194851	1191
5	17.60		0.174	174379	618
			12.819	570934	36879

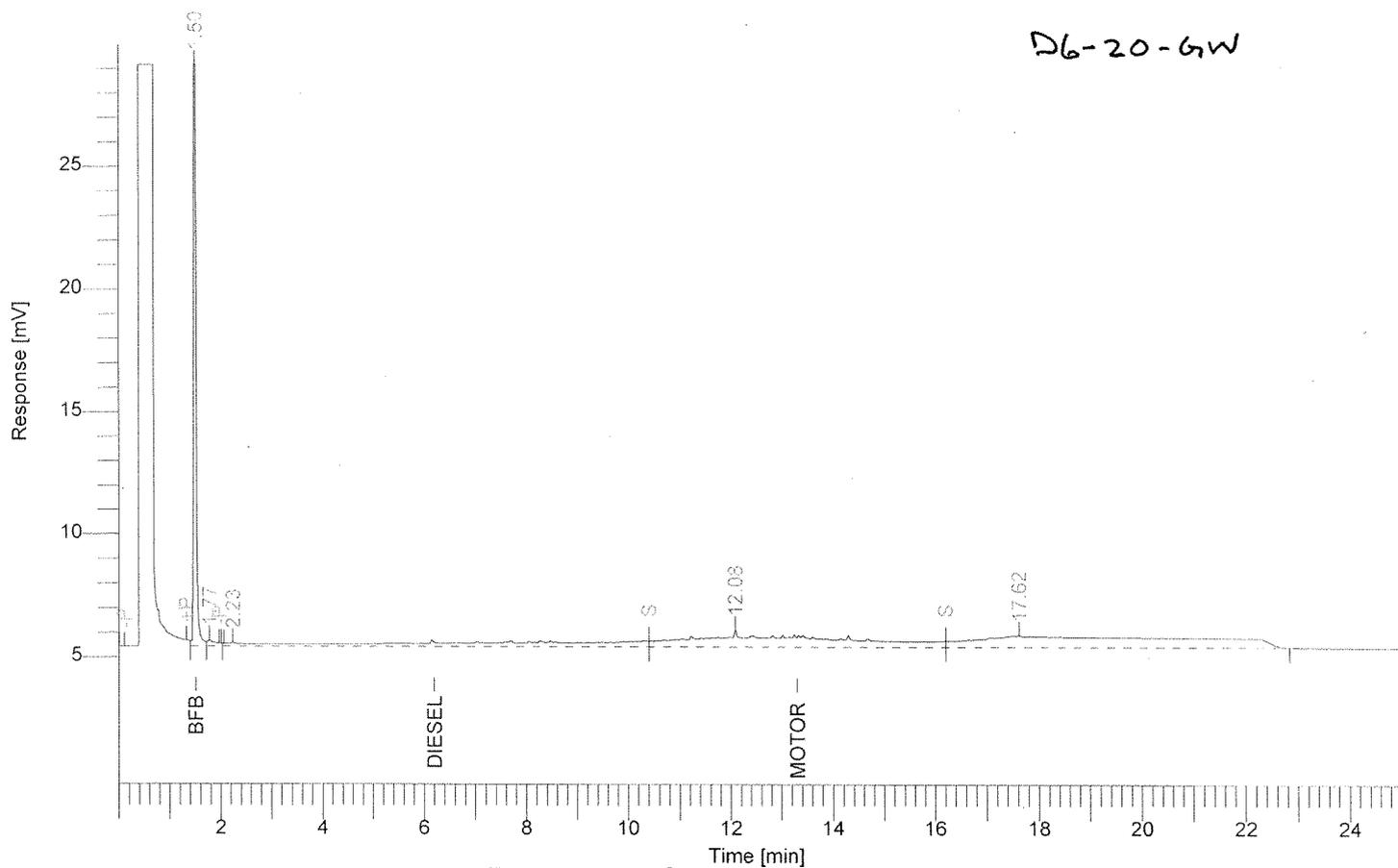
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-21
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 3

Date : 9/5/03 1:58:26 PM
 Data Acquisition Time : 7/31/03 12:52:13 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat649.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073103.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	4.668	94882	30123
2	1.77		0.003	3134	254
3	2.23	Diesel	1.053	69150	153
4	12.08	Motor Oil	3.238	113802	705
5	17.62		0.146	146057	483
			9.108	427024	31717

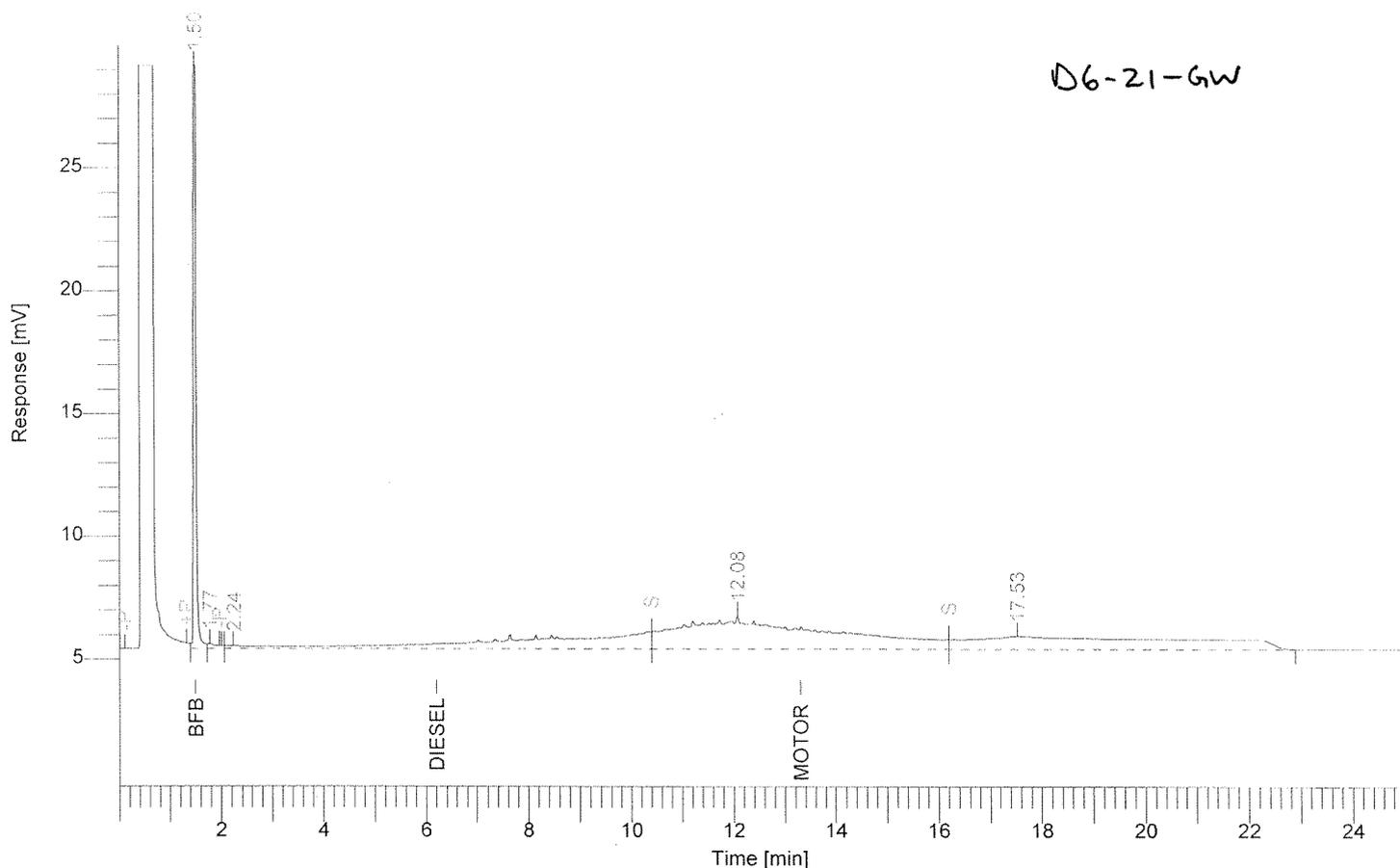
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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-22
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 4

Date : 9/5/03 1:58:35 PM
 Data Acquisition Time : 7/31/03 1:32:42 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat650.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073103.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.50	BFB	5.075	103355	32099
2	1.77		0.003	2906	207
3	2.24	Diesel	2.308	123981	125
4	12.08	Motor Oil	7.589	261708	1369
5	17.53		0.159	159117	530
			15.135	651067	34329

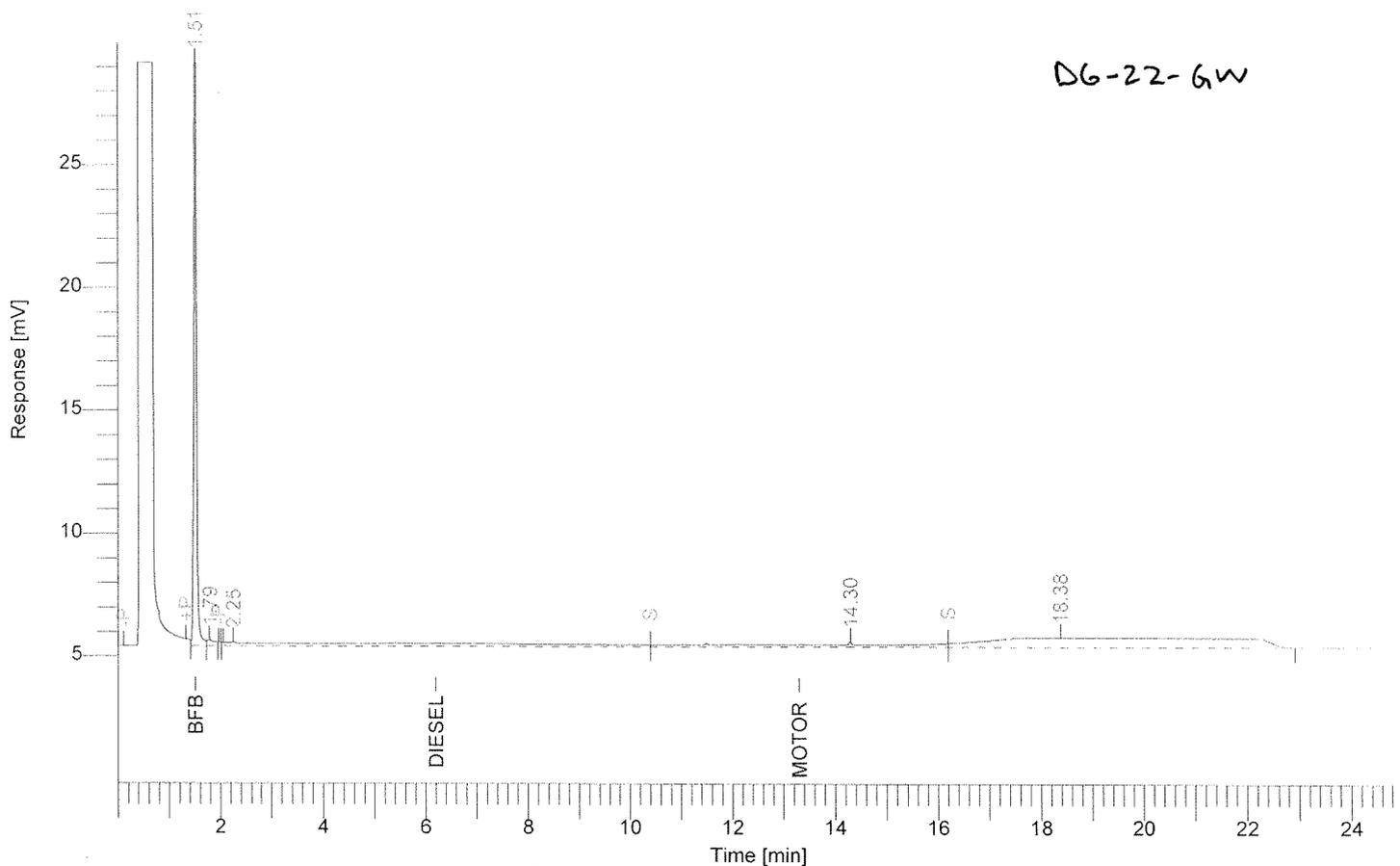
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat650.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-23
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 5

Date : 9/5/03 1:58:46 PM
 Data Acquisition Time : 7/31/03 2:13:11 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat651.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073103.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.51	BFB	4.446	90331	26205
2	1.79		0.003	2525	245
3	2.25	Diesel	0.603	49445	152
4	14.30	Motor Oil	0.780	30250	210
5	18.38		0.131	130554	384
			5.962	303104	27196

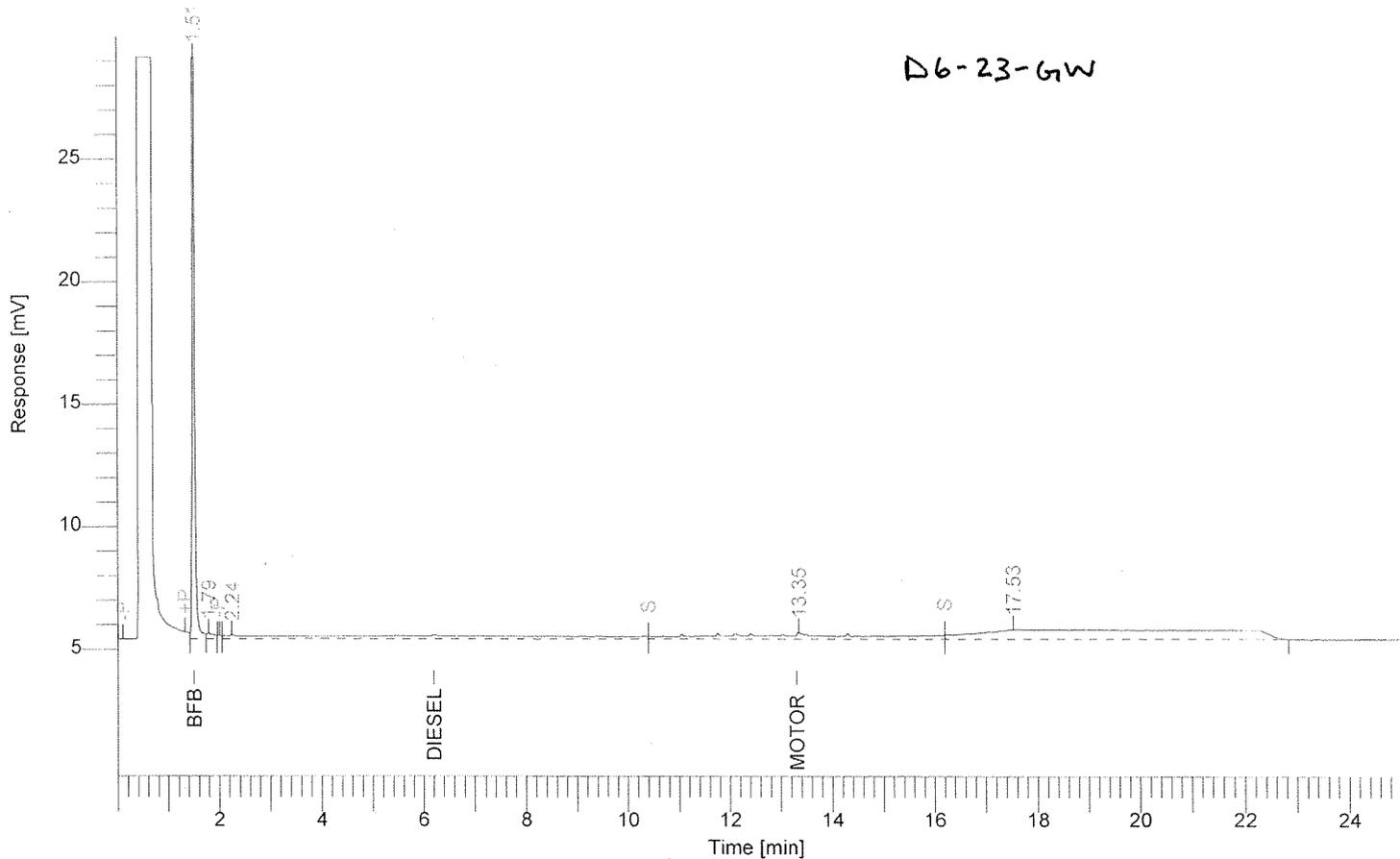
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat651.TX0

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 MFG, Inc.

Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-24
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 6

Date : 9/5/03 1:58:53 PM
 Data Acquisition Time : 7/31/03 2:53:51 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat652.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073103.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.51	BFB	4.072	82726	23753
2	1.79		0.002	2267	218
3	2.24	Diesel	0.662	52048	150
4	13.35	Motor Oil	1.185	44024	276
5	17.53		0.129	129500	386
			6.051	310565	24783

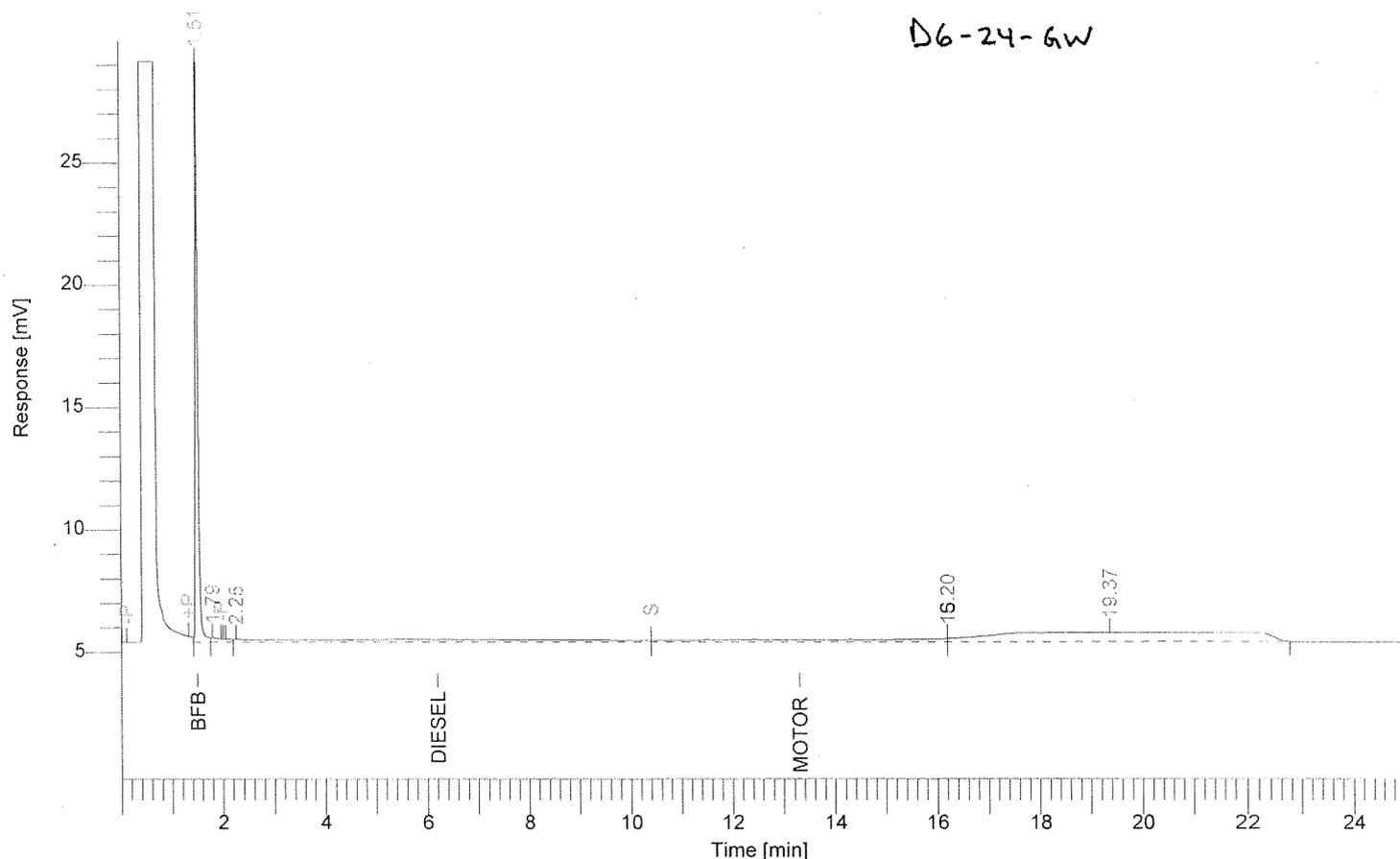
Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat652.TX0

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Software Version : 6.1.2.0.1:D19
 Sample Name : A307607-25
 Instrument Name : DsMo
 Rack/Vial : 0/0
 Sample Amount : 1.000000
 Cycle : 7

Date : 9/5/03 1:58:59 PM
 Data Acquisition Time : 7/31/03 3:34:29 PM
 Channel : A
 Operator : marvin
 Dilution Factor : 1.000000

Result File : C:\Archive_PenExe\Stats_082203\Data\atdat653.rst
 Sequence File : C:\PenExe\TcWS\Stats\Sequences\Seq_DsMo_073103.seq



Diesel/Motor Oil

Peak #	Time [min]	Component Name	Raw Amount	Area [uV*sec]	Height [uV]
1	1.51	BFB	4.162	84548	23229
2	1.79		0.003	3310	175
3	2.25	Diesel	0.372	39384	122
4	16.20	Motor Oil	0.655	26009	130
5	19.37		0.123	122621	359
			5.316	275872	24015

Report stored in ASCII file: C:\Archive_PenExe\Stats_082203\Data\atdat653.TX0

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